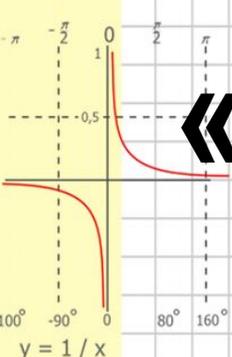
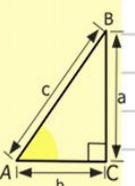
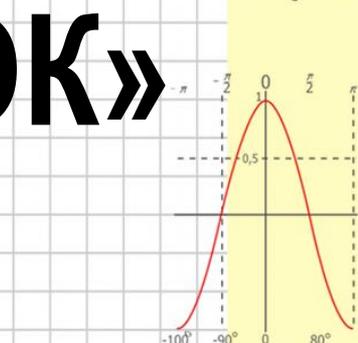
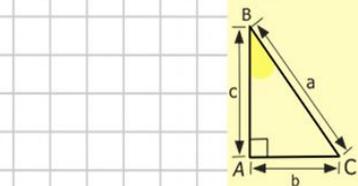
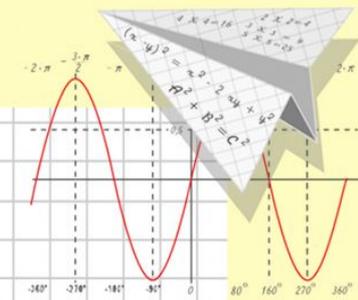
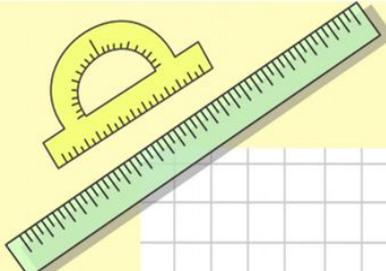


а

«РАСКРЫТИЕ СКОБОК»



$$\begin{array}{r} 2500 \\ \times 42 \\ \hline 210 \\ + 84 \\ \hline 105000 \end{array}$$

учитель математики

БОРИСОВА Наталья Валерьевна

ГБОУ школа № 430

Петродворцового района Санкт-Петербурга

- 2 x 2 = 4
- 3 x 3 = 9
- 4 x 4 = 16
- 5 x 5 = 25
- 6 x 6 = 36
- 7 x 7 = 49
- 8 x 8 = 64

$$\frac{a}{\sin A} = \frac{b}{\sin B} = \frac{c}{\sin C}$$

$$\frac{a}{c} + \frac{b}{c} = \frac{a+b}{c}$$

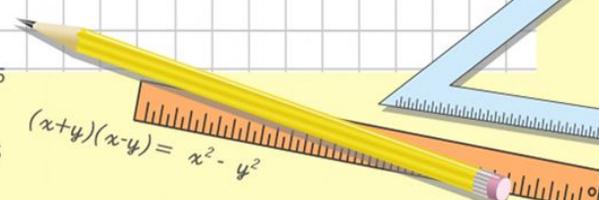
$$\sin 90^\circ = 1$$

$$\begin{cases} y = \sin 90 \\ x = 25y + 45 \end{cases}$$

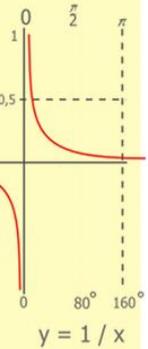
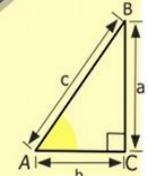
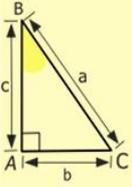
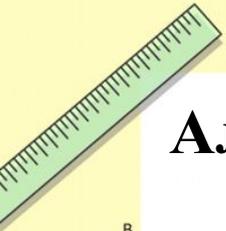
$$\begin{cases} y = 1 \\ x = 25 + 45 \end{cases}$$

$$x = 70$$

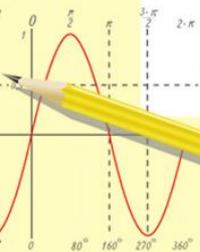
$$(x+y)(x-y) = x^2 - y^2$$



Аль-Бируни – ученый, который родился в конце I в. н.э. в Узбекистане. Он владел почти всеми науками своего времени, является автором многочисленных трудов, в том числе по математике.



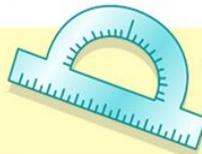
$$\begin{array}{r} \frac{1}{2} 500 \\ \times 42 \\ \hline 210 \\ + 84 \\ \hline 105000 \end{array}$$



$$\frac{a}{\sin A} = \frac{b}{\sin B} = \frac{c}{\sin C}$$

$$\frac{a}{c} + \frac{b}{c} = \frac{a+b}{c}$$

$$\sin 90^\circ = 1$$



$$\begin{cases} y = \sin 90 \\ x = 25y + 45 \end{cases}$$

$$\begin{cases} y = 1 \\ x = 25 + 45 \\ \hline x = 70 \end{cases} \quad (x +$$



ЗНАНИЕ - есть самое превосходное из владений.

Все стремятся к нему, но само оно не приходит.

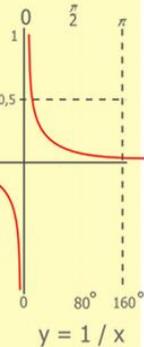
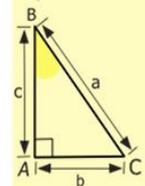
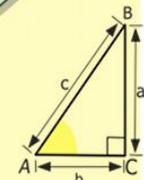
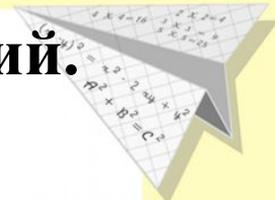
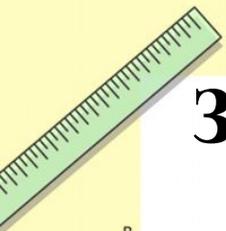
Я хороший!

Я буду стараться!

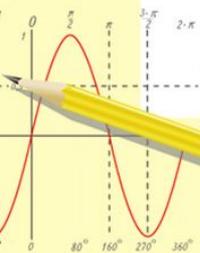
Я все знаю!

Я все умею!

У меня все получится!



$$\begin{array}{r} 2500 \\ \times 42 \\ \hline 2100 \\ + 8400 \\ \hline 105000 \end{array}$$



$$\frac{a}{\sin A} = \frac{b}{\sin B} = \frac{c}{\sin C}$$

$$\frac{a}{c} + \frac{b}{c} = \frac{a+b}{c}$$

$$\sin 90^\circ = 1$$



$$\begin{cases} y = \sin 90 \\ x = 25y + 45 \end{cases}$$

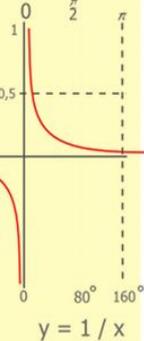
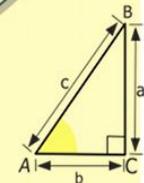
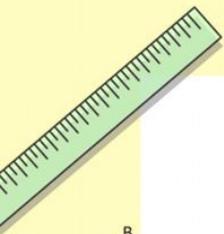
$$\begin{cases} y = 1 \\ x = 25 + 45 \\ \hline x = 70 \end{cases} \quad (x +$$



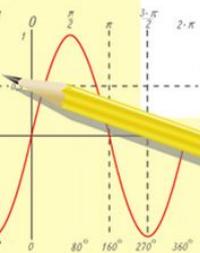
МАТЕМАТИЧЕСКИЙ МАРАФОН

по станциям:

- Станция «Счетная»
- Станция «Блиц-Опрос»
- Станция «Сотрудничества»
- Станция «Передышка»
- Станция «Занимательная»
- Станция «Проверочная»
- Станция «Самооценки»



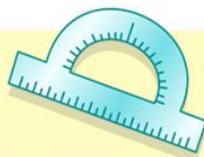
$$\begin{array}{r} 1\ 5\ 00 \\ \times 42 \\ \hline 210 \\ + 84 \\ \hline 105\ 000 \end{array}$$



$$\frac{a}{A} = \frac{b}{\sin B} = \frac{c}{\sin C}$$

$$\frac{a}{c} + \frac{b}{c} = \frac{a+b}{c}$$

$$\sin 90^\circ = 1$$

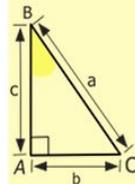
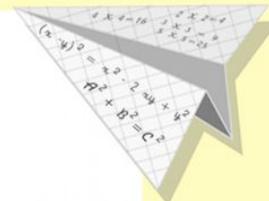


$$\begin{cases} y = \sin 90 \\ x = 25y + 45 \end{cases}$$

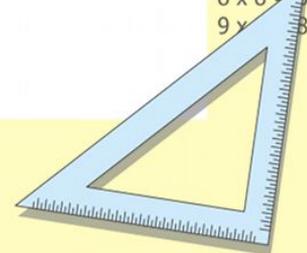
$$\begin{cases} y = 1 \\ x = 25 + 45 \end{cases}$$

$$\frac{x}{70}$$

$$(x+y)(x-y) = x^2 - y^2$$



$$\begin{array}{l} 2 \times 2 = 4 \\ 3 \times 3 = 9 \\ 4 \times 4 = 16 \\ 5 \times 5 = 25 \\ 6 \times 6 = 36 \\ 7 \times 7 = 49 \\ 8 \times 8 = 64 \\ 9 \times 9 = 81 \end{array}$$



Маршрутный лист ученика (ФИО, класс) _____

Станция «Счетная»	Станция «Блиц-Опрос»	Станция «Сотрудничества»	Станция «Занимательная»	Станция «Проверочная»

Станция «Самооценки» (поставьте «галочку» или «крестик» в соответствующем поле)



Я все понял на уроке и могу объяснить данную тему товарищу

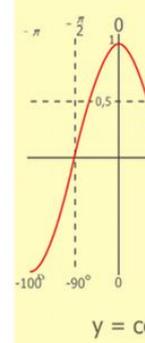
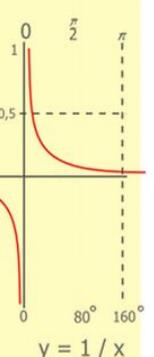
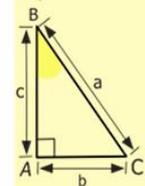
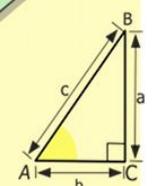
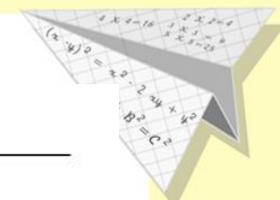
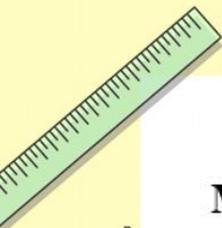


Я усвоил тему, но объяснить ее не могу



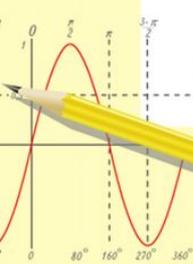
Данная тема оказалась для меня трудной

ИТОГОВАЯ ОТМЕТКА (выставляется учителем):



$$\begin{array}{r} 1\ 5\ 00 \\ \times 42 \\ \hline 210 \\ + 84 \\ \hline 105\ 000 \end{array}$$

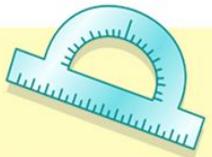
$$\begin{array}{l} 2 \times 2 = 4 \\ 3 \times 3 = 9 \\ 4 \times 4 = 16 \\ 5 \times 5 = 25 \\ 6 \times 6 = 36 \\ 7 \times 7 = 49 \\ 8 \times 8 = 64 \\ 9 \times 9 = 81 \end{array}$$



$$\frac{a}{\sin A} = \frac{b}{\sin B} = \frac{c}{\sin C}$$

$$\frac{a}{c} + \frac{b}{c} = \frac{a+b}{c}$$

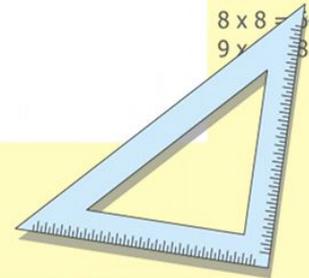
$$\sin 90^\circ = 1$$



$$\begin{cases} y = \sin 90 \\ x = 25y + 45 \end{cases}$$

$$\begin{cases} y = 1 \\ x = 25 + 45 \\ \hline x = 70 \end{cases}$$

$$(x+y)(x-y) = x^2 - y^2$$



СТАНЦИЯ «СЧЕТНАЯ»

ЗАДАНИЕ: «Математическая разминка»

$$\frac{-27}{3 \cdot (-4,5)}$$

$$-102 \cdot (-105)$$

$$14 \cdot \frac{1}{6} - 23 \cdot \frac{1}{6}$$

$$(-75)^2$$

$$\left(\frac{1}{2} - 0,5\right) \cdot \frac{15}{17}$$

$$98 \cdot (-97)$$

$$-0,3 \cdot (-50)$$

$$(-5)^3$$

$$\frac{a}{A} = \frac{b}{\sin B} = \frac{c}{\sin C}$$

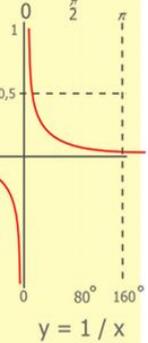
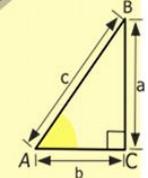
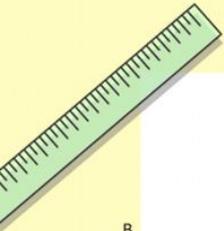
$$\frac{a}{c} + \frac{b}{c} = \frac{a+b}{c}$$

$$\sin 90^\circ = 1$$

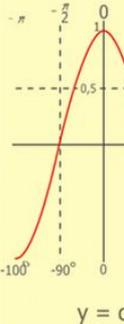
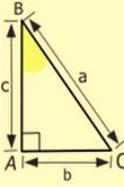
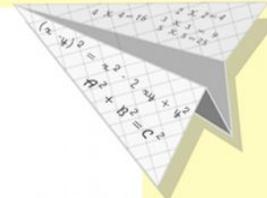
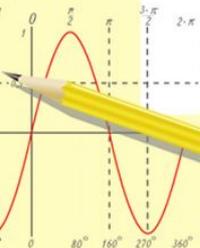
$$\begin{cases} y = \sin 90 \\ x = 25y + 45 \end{cases}$$

$$\begin{cases} y = 1 \\ x = 25 + 45 \\ \hline x = 70 \end{cases}$$

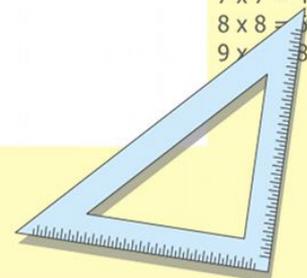
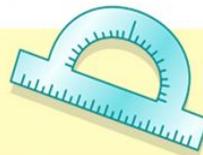
$$(x+y)(x-y) = x^2 - y^2$$



$$\begin{array}{r} 2500 \\ \times 42 \\ \hline 210 \\ + 84 \\ \hline 10500 \end{array}$$



$$\begin{array}{l} 2 \times 2 = 4 \\ 3 \times 3 = 9 \\ 4 \times 4 = 16 \\ 5 \times 5 = 25 \\ 6 \times 6 = 36 \\ 7 \times 7 = 49 \\ 8 \times 8 = 64 \\ 9 \times 9 = 81 \end{array}$$



8 верно – «5»

6 – 7 верно – «4»

5 верно – «3»

СТАНЦИЯ «СЧЕТНАЯ»

ЗАДАНИЕ: «Математическая разминка»

$$\frac{-27}{3 \cdot (-4,5)}$$

2

$$\left(\frac{1}{2} - 0,5\right) \cdot \frac{15}{17}$$

0

$$-102 \cdot (-105)$$

10710

$$98 \cdot (-97)$$

- 9506

$$14 \cdot \frac{1}{6} - 23 \cdot \frac{1}{6}$$

- 1,5

$$-0,3 \cdot (-50)$$

15

$$(-75)^2$$

5625

$$(-5)^3$$

- 125

$$\frac{a}{\sin A} = \frac{b}{\sin B} = \frac{c}{\sin C}$$

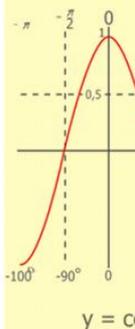
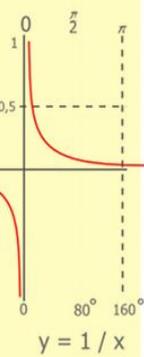
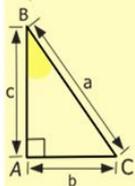
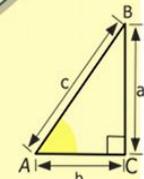
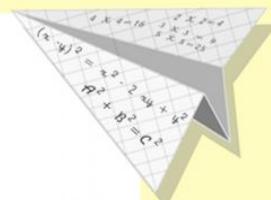
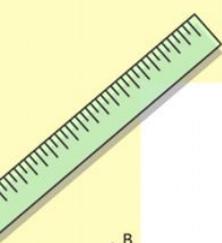
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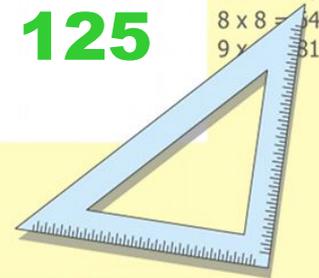
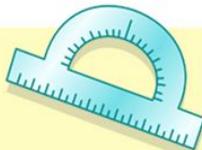
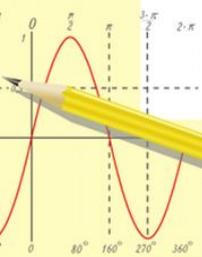
$$(x+y)(x-y) = x^2 - y^2$$



2 5 00
x 4 2
+ 21 0

105 0 00

2 x 2 = 4
3 x 3 = 9
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Маршрутный лист ученика (ФИО, класс) _____

Станция «Счетная»	Станция «Блиц-Опрос»	Станция «Сотрудничества»	Станция «Занимательная»	Станция «Проверочная»
				

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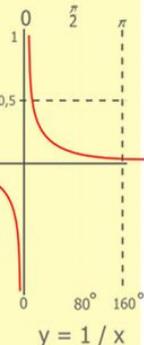
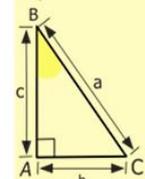
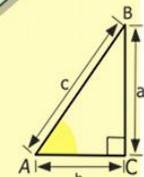
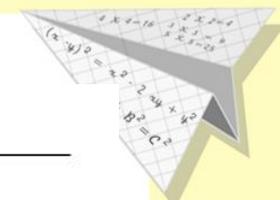
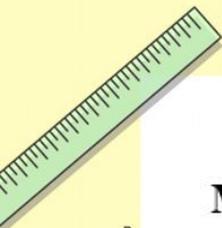


Я усвоил тему, но объяснить ее не могу



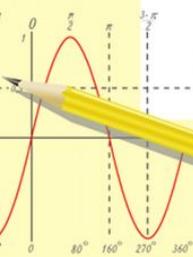
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ИТОГОВАЯ ОТМЕТКА (выставляется учителем):



$$\begin{array}{r} 1\ 5\ 00 \\ \times 42 \\ \hline 210 \\ + 84 \\ \hline 105\ 000 \end{array}$$

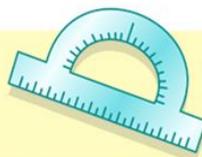
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$$\sin 90^\circ = 1$$

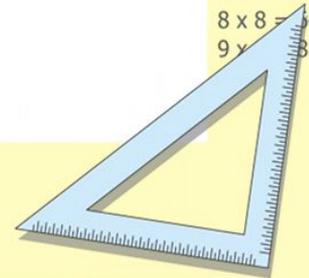


$$\begin{cases} y = \sin 90 \\ x = 25y + 45 \end{cases}$$

$$\begin{cases} y = 1 \\ x = 25 + 45 \end{cases}$$

$$x = 70$$

$$(x+y)(x-y) = x^2 - y^2$$

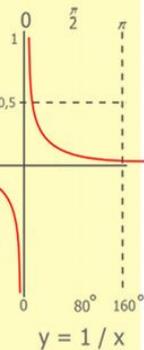
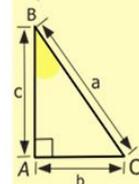
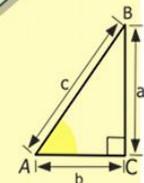
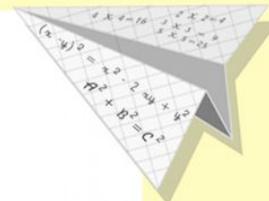
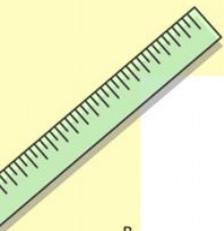


СТАНЦИЯ «БЛИЦ-ОПРОС»

$$7,2 - (-5,9 + 3,2) \quad | \quad (3,4 - 6,7) + 13,2$$

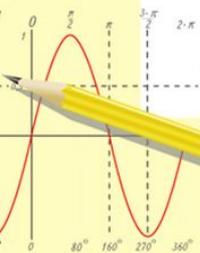
$$-1,3 - (-5,4 - 5,8) \quad | \quad (6,8 - 11,4) + 14,5$$

ЯЗЫК	ЗНАЧЕНИЕ
греческий	-4,2
латинский	8,9
английский	1,6
немецкий	9,9
французский	-0,9
русский	2,7



$$\begin{array}{r} 12500 \\ \times 42 \\ \hline 210 \\ + 84 \\ \hline 105000 \end{array}$$

$$\begin{array}{l} 2 \times 2 = 4 \\ 3 \times 3 = 9 \\ 4 \times 4 = 16 \\ 5 \times 5 = 25 \\ 6 \times 6 = 36 \\ 7 \times 7 = 49 \\ 8 \times 8 = 64 \\ 9 \times 9 = 81 \end{array}$$



$$\frac{a}{\sin A} = \frac{b}{\sin B} = \frac{c}{\sin C}$$

$$\frac{a}{c} + \frac{b}{c} = \frac{a+b}{c}$$

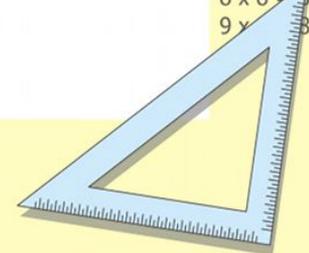
$$\sin 90^\circ = 1$$



$$\begin{cases} y = \sin 90 \\ x = 25y + 45 \end{cases}$$

$$\begin{cases} y = 1 \\ x = 25 + 45 \\ \hline x = 70 \end{cases}$$

$$(x+y)(x-y) = x^2 - y^2$$



СТАНЦИЯ «БЛИЦ-ОПРОС»

ЗАДАНИЕ: «Раскрой скобки и расшифруй слово»

- 1) $x - (x - y)$
- 5) $-(-m + 8) + (-4 - m)$
- 4) $a - (b + a)$
- 3) $-(c - 4) + (-9 + c)$
- 2) $c - (-d + c)$
- 6) $-(6 - x) + (2 - x)$

Л	И	Е	Н	М	А	Я	О
-5	-12	2	-b	y	m	-4	d

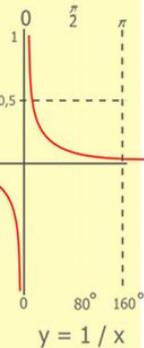
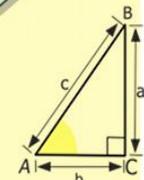
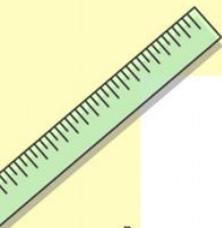
$$\frac{a}{\sin A} = \frac{b}{\sin B} = \frac{c}{\sin C}$$

$$\frac{a}{c} + \frac{b}{c} = \frac{a+b}{c}$$

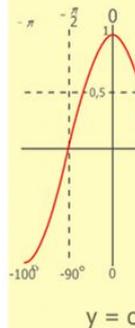
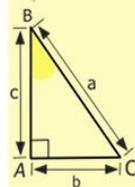
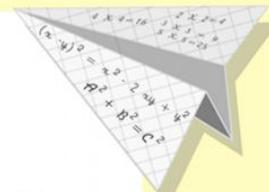
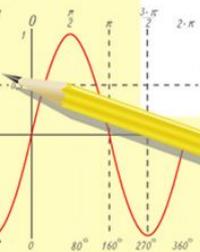
$$\sin 90^\circ = 1$$

$$\begin{cases} x - 2y + 4 = 0 \\ y = 1 \\ x = 25 + 45 \\ x = 70 \end{cases}$$

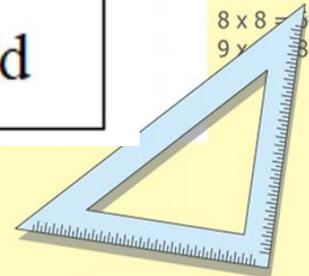
$$(x+y)(x-y) = x^2 - y^2$$



$$\begin{array}{r} 1\ 5\ 00 \\ \times 42 \\ \hline 210 \\ + 84 \\ \hline 105\ 000 \end{array}$$



$$\begin{array}{l} 2 \times 2 = 4 \\ 3 \times 3 = 9 \\ 4 \times 4 = 16 \\ 5 \times 5 = 25 \\ 6 \times 6 = 36 \\ 7 \times 7 = 49 \\ 8 \times 8 = 64 \\ 9 \times 9 = 81 \end{array}$$



Маршрутный лист ученика (ФИО, класс) _____

Станция «Счетная»	Станция «Блиц-Опрос»	Станция «Сотрудничества»	Станция «Занимательная»	Станция «Проверочная»
				

Станция «Самооценки» (поставьте «галочку» или «крестик» в соответствующем поле)



Я все понял на уроке и могу объяснить данную тему товарищу

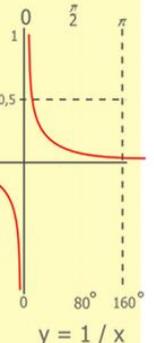
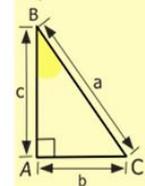
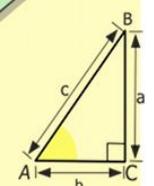
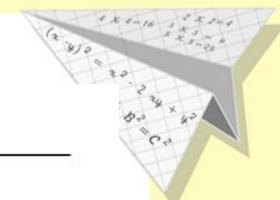
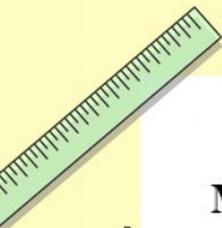


Я усвоил тему, но объяснить ее не могу



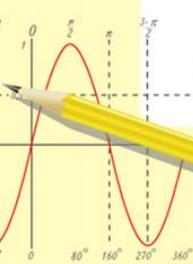
Данная тема оказалась для меня трудной

ИТОГОВАЯ ОТМЕТКА (выставляется учителем):



$$\begin{array}{r} 2500 \\ \times 42 \\ \hline 210 \\ + 84 \\ \hline 105000 \end{array}$$

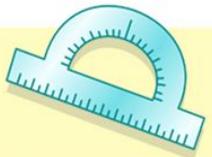
- 2 x 2 = 4
- 3 x 3 = 9
- 4 x 4 = 16
- 5 x 5 = 25
- 6 x 6 = 36
- 7 x 7 = 49
- 8 x 8 = 64
- 9 x 9 = 81



$$\frac{a}{\sin A} = \frac{b}{\sin B} = \frac{c}{\sin C}$$

$$\frac{a}{c} + \frac{b}{c} = \frac{a+b}{c}$$

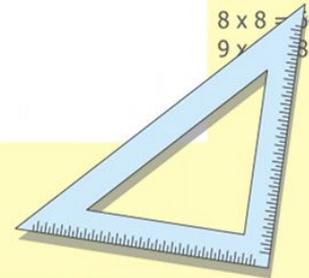
$\sin 90^\circ = 1$



$$\begin{cases} y = \sin 90 \\ x = 25y + 45 \end{cases}$$

$$\begin{cases} y = 1 \\ x = 25 + 45 \\ \hline x = 70 \end{cases}$$

$(x+y)(x-y) = x^2 - y^2$

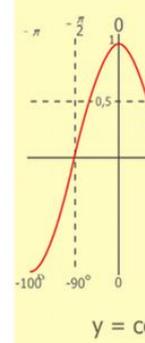
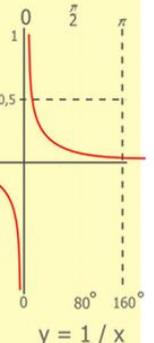
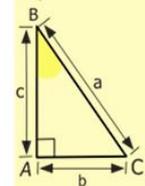
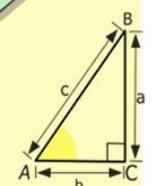
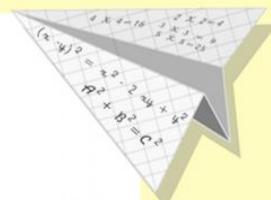
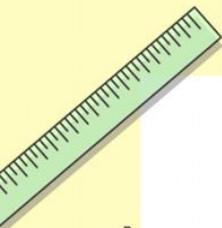


СТАНЦИЯ «СОТРУДНИЧЕСТВА»

ЗАДАНИЕ: «Проверь соседа»

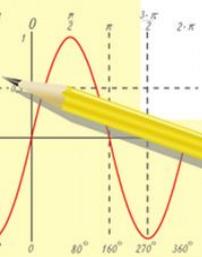
Теоретический опрос:

ПРАВИЛА РАСКРЫТИЯ СКОБОК С УЧЕТОМ ЗНАКА,
СТОЯЩЕГО ПЕРЕД СКОБКАМИ



$$\begin{array}{r} 2500 \\ \times 42 \\ \hline 210 \\ + 84 \\ \hline 105000 \end{array}$$

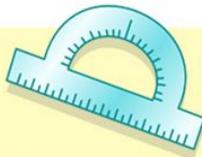
- $2 \times 2 = 4$
- $3 \times 3 = 9$
- $4 \times 4 = 16$
- $5 \times 5 = 25$
- $6 \times 6 = 36$
- $7 \times 7 = 49$
- $8 \times 8 = 64$
- $9 \times 9 = 81$



$$\frac{a}{\sin A} = \frac{b}{\sin B} = \frac{c}{\sin C}$$

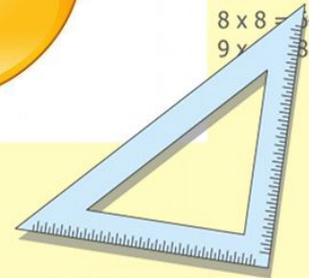
$$\frac{a}{c} + \frac{b}{c} = \frac{a+b}{c}$$

$$\sin 90^\circ = 1$$



$$\begin{cases} y = \sin 50 \\ x = 25y + 45 \\ y = 1 \\ x = 25 + 45 \\ \hline x = 70 \end{cases}$$

$$(x+y)(x-y) = x^2 - y^2$$

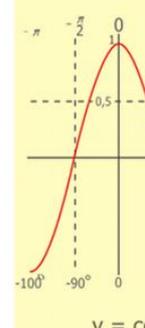
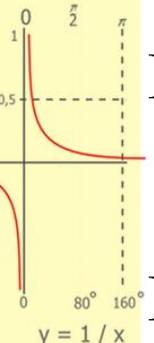
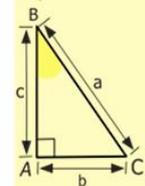
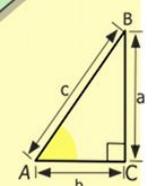
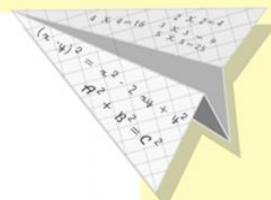
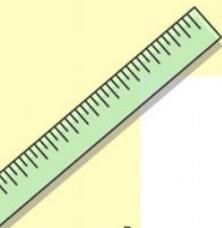


СТАНЦИЯ «СОТРУДНИЧЕСТВА»

ЗАДАНИЕ: «Кот в мешке»

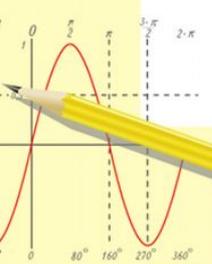
На карточке: составить два буквенных выражения

В тетрадь: составить сумму
и разность данных выражений,
раскрыть скобки



$$\begin{array}{r} 2500 \\ \times 42 \\ \hline 2100 \\ + 840 \\ \hline 105000 \end{array}$$

- $2 \times 2 = 4$
- $3 \times 3 = 9$
- $4 \times 4 = 16$
- $5 \times 5 = 25$
- $6 \times 6 = 36$
- $7 \times 7 = 49$
- $8 \times 8 = 64$
- $9 \times 9 = 81$

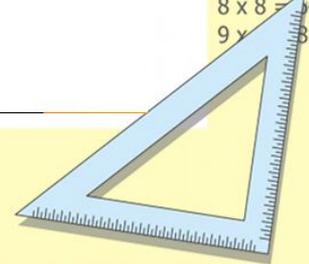


$$\frac{a}{\sin A} = \frac{b}{\sin B} = \frac{c}{\sin C}$$
$$\frac{a}{c} + \frac{b}{c} = \frac{a+b}{c}$$

$$\sin 90^\circ = 1$$



$$\begin{cases} x = 25y + 45 \\ y = 1 \\ x = 25 + 45 \\ x = 70 \end{cases}$$
$$(x+y)(x-y) = x^2 - y^2$$



СТАНЦИЯ «СОТРУДНИЧЕСТВА»

ЗАДАНИЕ: «Найди ошибку»

$$-(13,5 - p) = -13,5 - p$$

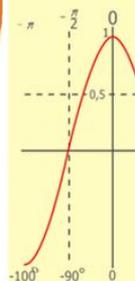
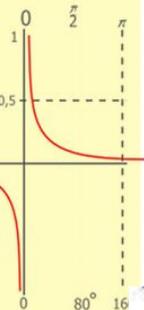
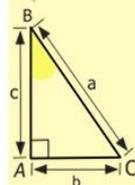
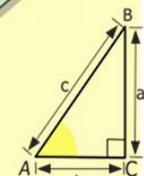
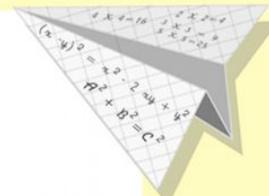
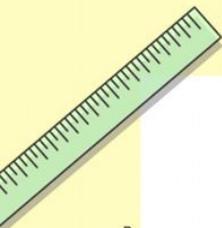
$$-\left(-\frac{2}{7} - x\right) = \frac{2}{7} - x$$

$$-(2x - 1) + (3 + x) = 2x + 1 + 3 + x$$

$$(3x + 4) - (5x + 6) = 3x + 4 - 5x + 6$$

$$-(2x - 1) + (3 + x) = 2x + 1 + 3 + x$$

$$x - (p + t - k) = x - p + t - k$$

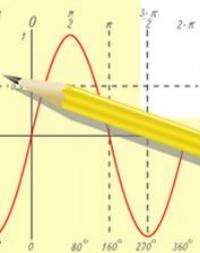


$$y = 1/x$$

$$y = \cos$$

$$\begin{array}{r} 1\ 2\ 5\ 00 \\ \times 42 \\ \hline 210 \\ + 84 \\ \hline 105\ 000 \end{array}$$

- 2 x 2 = 4
- 3 x 3 = 9
- 4 x 4 = 16
- 5 x 5 = 25
- 6 x 6 = 36
- 7 x 7 = 49
- 8 x 8 = 64
- 9 x 9 = 81



$$\frac{a}{\sin A} = \frac{b}{\sin B} = \frac{c}{\sin C}$$

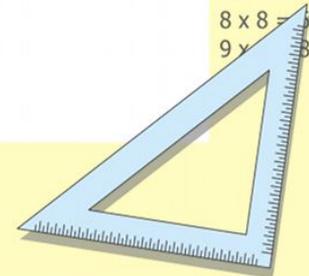
$$\frac{a}{c} + \frac{b}{c} = \frac{a+b}{c}$$

$$\sin 90^\circ = 1$$



$$\begin{cases} y = 1 \\ x = 25 + 45 \\ \hline x = 70 \end{cases}$$

$$(x+y)(x-y) = x^2 - y^2$$



Маршрутный лист ученика (ФИО, класс) _____

Станция «Счетная»	Станция «Блиц-Опрос»	Станция «Сотрудничества»	Станция «Занимательная»	Станция «Проверочная»
				

Станция «Самооценки» (поставьте «галочку» или «крестик» в соответствующем поле)



Я все понял на уроке и могу объяснить данную тему товарищу

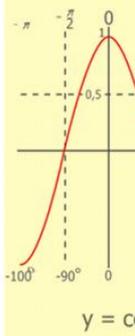
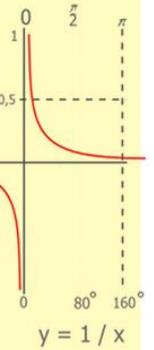
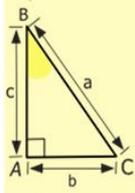
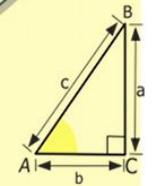
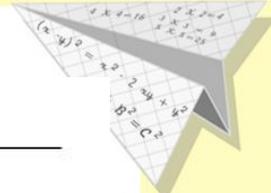
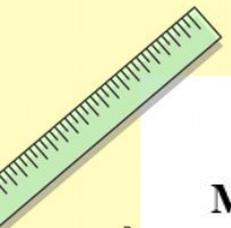


Я усвоил тему, но объяснить ее не могу



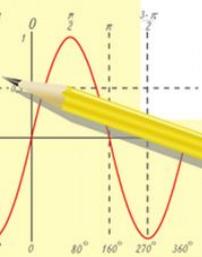
Данная тема оказалась для меня трудной

ИТОГОВАЯ ОТМЕТКА (выставляется учителем):



$$\begin{array}{r} 1\ 2\ 5\ 00 \\ \times 42 \\ \hline 210 \\ + 84 \\ \hline 105\ 000 \end{array}$$

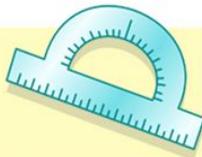
- 2 x 2 = 4
- 3 x 3 = 9
- 4 x 4 = 16
- 5 x 5 = 25
- 6 x 6 = 36
- 7 x 7 = 49
- 8 x 8 = 64
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$$\frac{a}{\sin A} = \frac{b}{\sin B} = \frac{c}{\sin C}$$

$$\frac{a}{c} + \frac{b}{c} = \frac{a+b}{c}$$

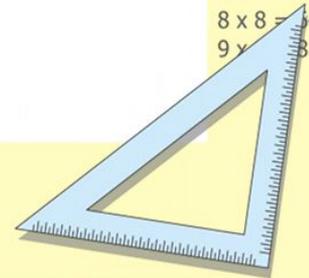
$$\sin 90^\circ = 1$$



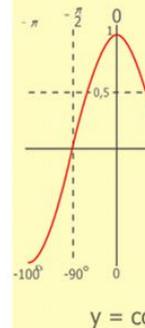
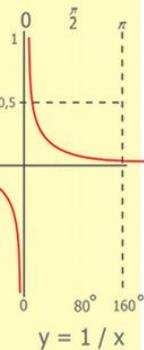
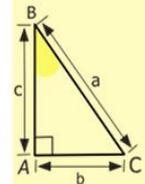
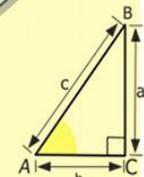
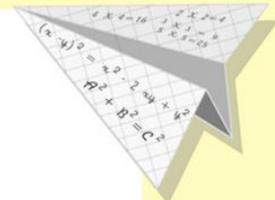
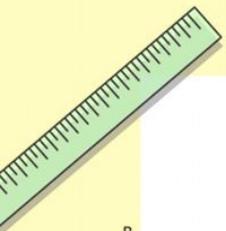
$$\begin{cases} y = \sin 90 \\ x = 25y + 45 \end{cases}$$

$$\begin{cases} y = 1 \\ x = 25 + 45 \\ \hline x = 70 \end{cases}$$

$$(x+y)(x-y) = x^2 - y^2$$

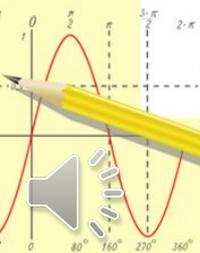


СТАНЦИЯ «ПЕРЕДЫШКА»



$$\begin{array}{r} 1\ 2\ 5\ 00 \\ \times 42 \\ \hline 210 \\ + 84 \\ \hline 105\ 000 \end{array}$$

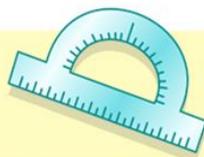
- $2 \times 2 = 4$
- $3 \times 3 = 9$
- $4 \times 4 = 16$
- $5 \times 5 = 25$
- $6 \times 6 = 36$
- $7 \times 7 = 49$
- $8 \times 8 = 64$
- $9 \times 9 = 81$



$$\frac{a}{\sin A} = \frac{b}{\sin B} = \frac{c}{\sin C}$$

$$\frac{a}{c} + \frac{b}{c} = \frac{a+b}{c}$$

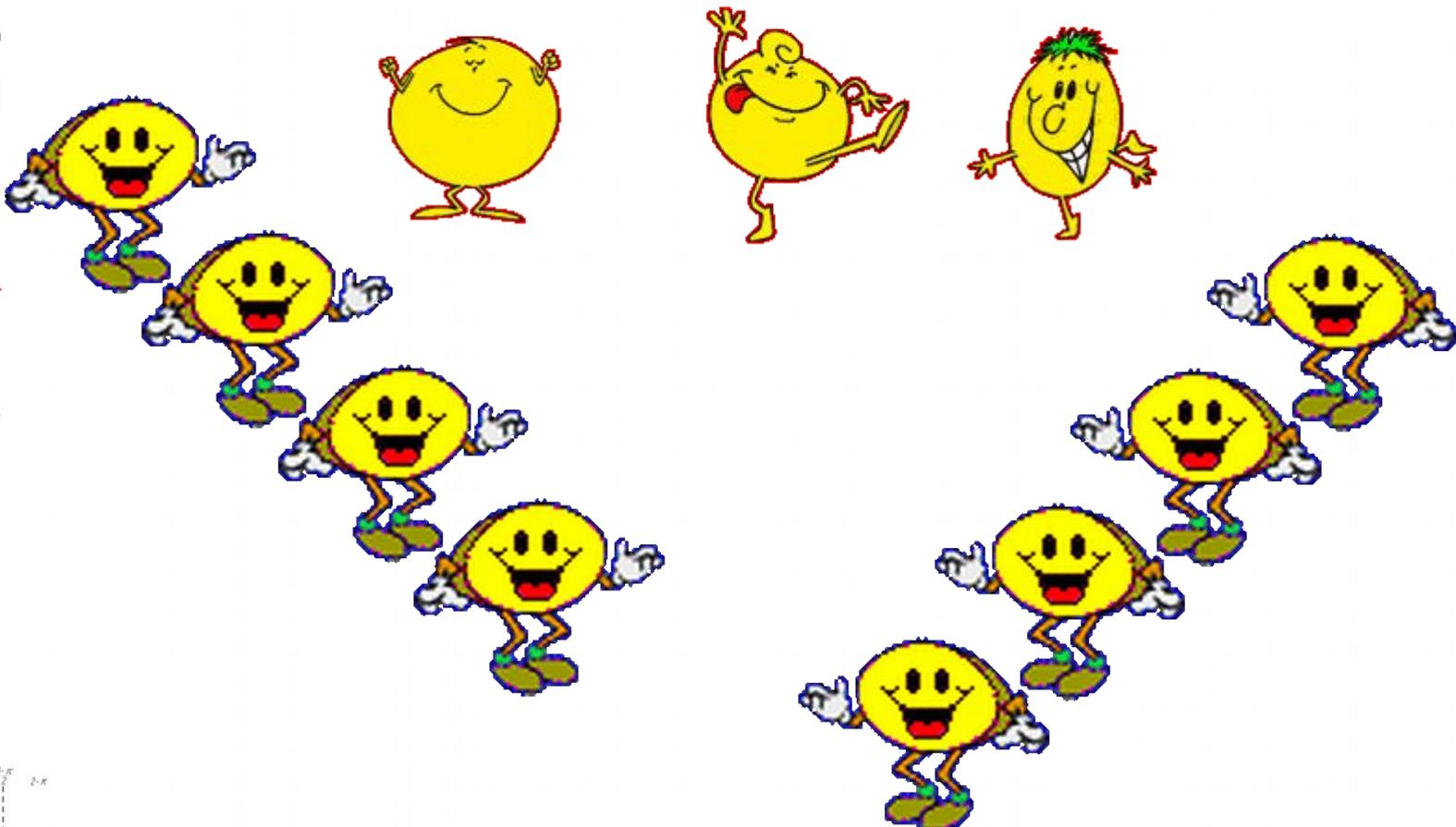
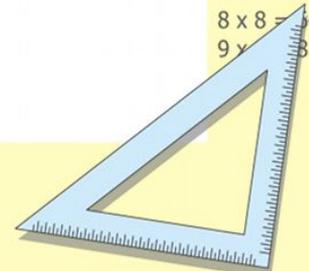
$$\sin 90^\circ = 1$$



$$\begin{cases} y = \sin 90 \\ x = 25y + 45 \end{cases}$$

$$\begin{cases} y = 1 \\ x = 25 + 45 \\ \hline x = 70 \end{cases}$$

$$(x+y)(x-y) = x^2 - y^2$$



СТАНЦИЯ «ЗАНИМАТЕЛЬНАЯ»

ЗАДАНИЕ:

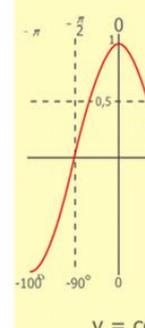
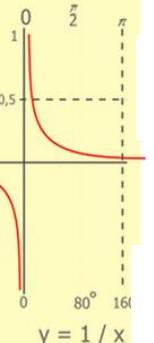
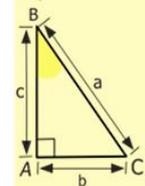
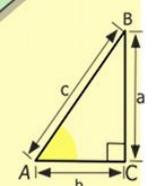
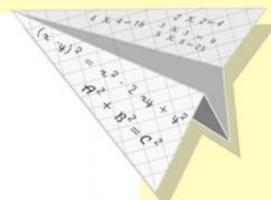
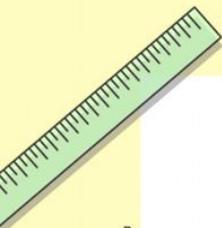
«Вычислить наиболее рациональным способом»

$$-8,79 + (-1,76 + 8,79)$$

$$3,4 - (2,9 + 3,4 + 4,1)$$

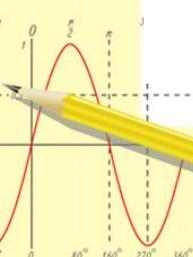
$$(4,67 - 3,94) + (3,94 - 3,67)$$

$$(4,8 + 2,75) - (4,8 - 3,25)$$



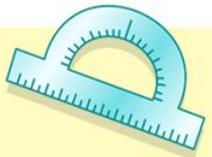
$$\begin{array}{r} 1\ 5\ 00 \\ \times 42 \\ \hline 210 \\ + 84 \\ \hline 105\ 000 \end{array}$$

- 2 x 2 = 4
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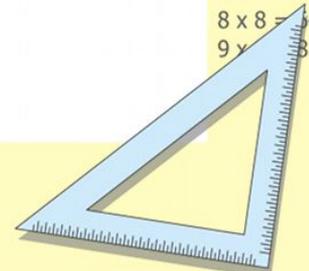
$$\frac{a}{A} = \frac{b}{\sin B} = \frac{c}{\sin C}$$
$$\frac{a}{c} + \frac{b}{c} = \frac{a+b}{c}$$

$$\sin 90^\circ = 1$$



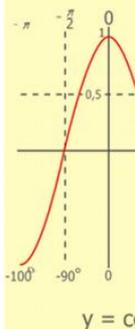
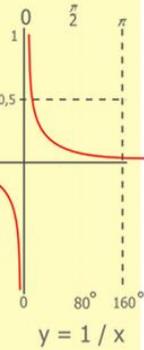
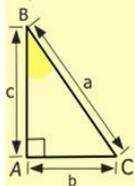
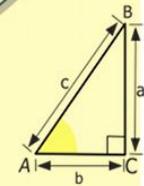
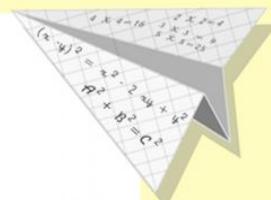
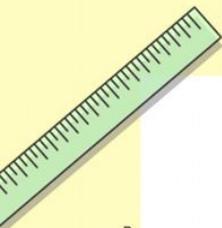
$$\begin{cases} y = \sin 90 \\ x = 25y + 45 \end{cases}$$
$$\begin{cases} y = 1 \\ x = 25 + 45 \\ \hline x = 70 \end{cases}$$

$$(x+y)(x-y) = x^2 - y^2$$



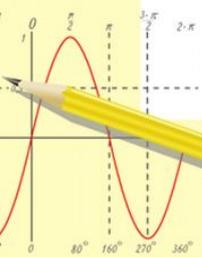
СТАНЦИЯ «ЗАНИМАТЕЛЬНАЯ»

ЗАДАНИЕ: «КОТ В МЕШКЕ»



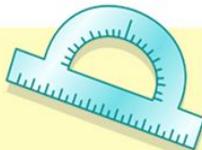
$$\begin{array}{r} 1 \\ 2500 \\ \times 42 \\ \hline 210 \\ + 84 \\ \hline 10500 \end{array}$$

- 2 x 2 = 4
- 3 x 3 = 9
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$$\frac{a}{\sin A} = \frac{b}{\sin B} = \frac{c}{\sin C}$$
$$\frac{a}{c} + \frac{b}{c} = \frac{a+b}{c}$$

$\sin 90^\circ = 1$

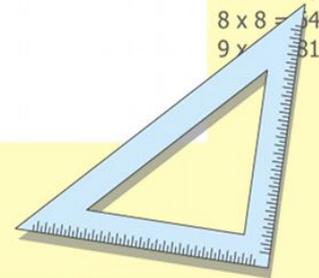


$$\begin{cases} y = \sin 90 \\ x = 25y + 45 \end{cases}$$

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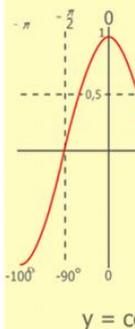
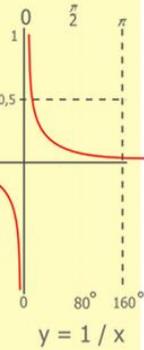
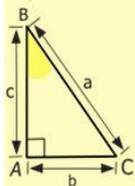
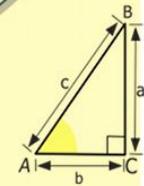
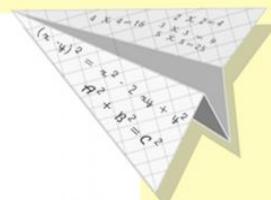
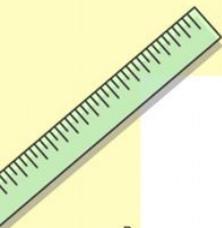
$x = 70$

$$(x+y)(x-y) = x^2 - y^2$$



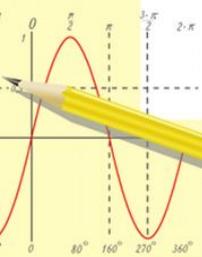
СТАНЦИЯ «ЗАНИМАТЕЛЬНАЯ»

ЗАДАНИЕ: «Реши уравнение – собери картинку»



$$\begin{array}{r} \frac{1}{2} 500 \\ \times 42 \\ \hline 210 \\ + 84 \\ \hline 10500 \end{array}$$

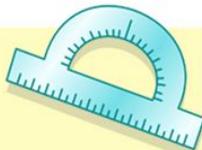
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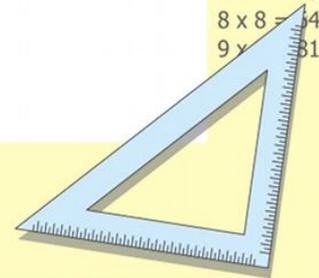
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$$\begin{cases} y = \sin 90 \\ x = 25y + 45 \end{cases}$$

$$\begin{cases} y = 1 \\ x = 25 + 45 \\ \hline x = 70 \end{cases}$$

$$(x+y)(x-y) = x^2 - y^2$$



Маршрутный лист ученика (ФИО, класс) _____

Станция «Счетная»	Станция «Блиц-Опрос»	Станция «Сотрудничества»	Станция «Занимательная»	Станция «Проверочная»
				

Станция «Самооценки» (поставьте «галочку» или «крестик» в соответствующем поле)



Я все понял на уроке и могу объяснить данную тему товарищу

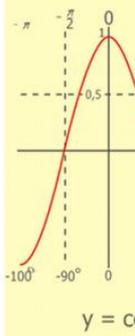
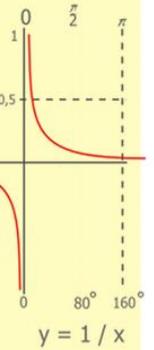
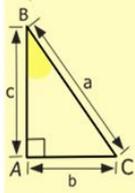
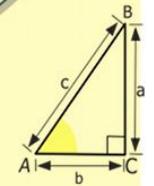
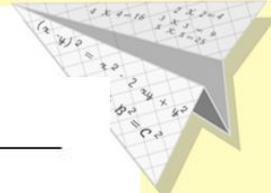
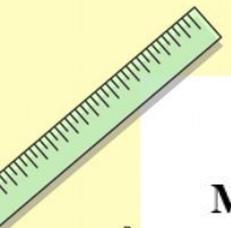


Я усвоил тему, но объяснить ее не могу



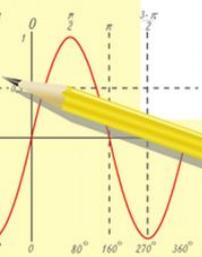
Данная тема оказалась для меня трудной

ИТОГОВАЯ ОТМЕТКА (выставляется учителем):



$$\begin{array}{r} 1\ 2\ 5\ 00 \\ \times 42 \\ \hline 210 \\ + 84 \\ \hline 105\ 000 \end{array}$$

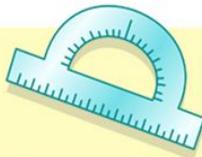
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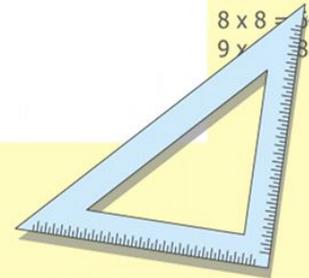
$$\sin 90^\circ = 1$$



$$\begin{cases} y = \sin 90 \\ x = 25y + 45 \end{cases}$$

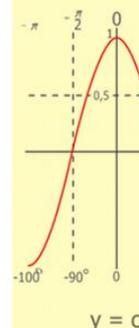
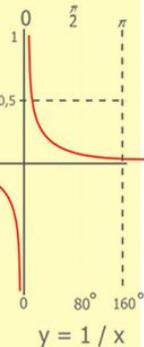
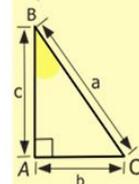
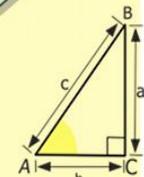
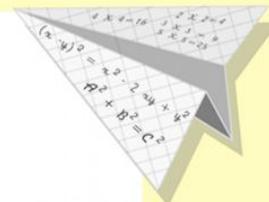
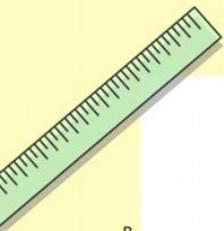
$$\begin{cases} y = 1 \\ x = 25 + 45 \\ \hline x = 70 \end{cases}$$

$$(x+y)(x-y) = x^2 - y^2$$



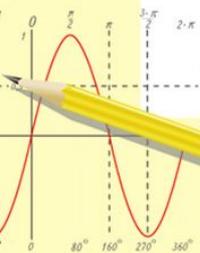
СТАНЦИЯ «ПРОВЕРОЧНАЯ»

САМОСТОЯТЕЛЬНАЯ РАБОТА «РАСКРЫТЬ СКОБКИ»



$$\begin{array}{r} 2500 \\ \times 42 \\ \hline 210 \\ + 84 \\ \hline 10500 \end{array}$$

- $2 \times 2 = 4$
- $3 \times 3 = 9$
- $4 \times 4 = 16$
- $5 \times 5 = 25$
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- $7 \times 7 = 49$
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$$\frac{a}{\sin A} = \frac{b}{\sin B} = \frac{c}{\sin C}$$

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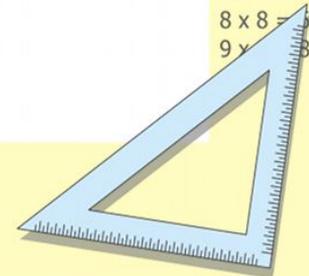
$$\sin 90^\circ = 1$$



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$$\begin{cases} y = 1 \\ x = 25 + 45 \\ \hline x = 70 \end{cases}$$

$$(x+y)(x-y) = x^2 - y^2$$



5 верно – «5»

4 верно – «4»

3 верно – «3»

Иное – «2»

СТАНЦИЯ «ПРОВЕРОЧНАЯ»

ОТВЕТЫ НА САМОСТОЯТЕЛЬНУЮ РАБОТУ «РАСКРЫТЬ СКОБКИ»

I вариант

ОТВЕТЫ

$$y$$

$$-8c$$

$$-3a - 3b$$

$$-4,5$$

$$-x - 10 + 2x$$

II вариант

ОТВЕТЫ

$$-b$$

$$-8m$$

$$-5a - 5b$$

$$2,1$$

$$x - 2x + 2$$

$$\frac{a}{\sin A} = \frac{b}{\sin B} = \frac{c}{\sin C}$$

$$\frac{a}{c} + \frac{b}{c} = \frac{a+b}{c}$$

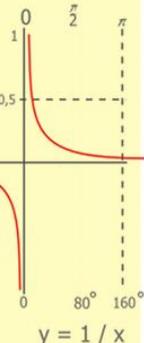
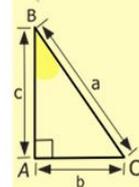
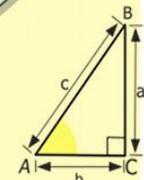
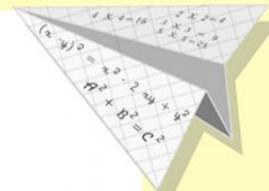
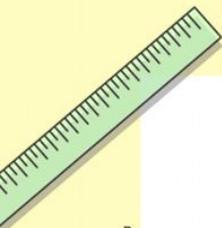
$$\sin 90^\circ = 1$$

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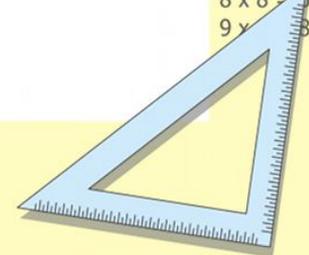
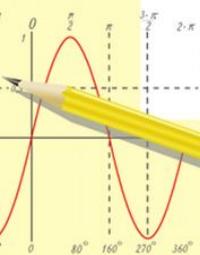
$$x = 70$$

$$(x+y)(x-y) = x^2 - y^2$$



$$\begin{array}{r} 2500 \\ \times 42 \\ \hline 2100 \\ + 8400 \\ \hline 105000 \end{array}$$

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Маршрутный лист ученика (ФИО, класс) _____

Станция «Счетная»	Станция «Блиц-Опрос»	Станция «Сотрудничества»	Станция «Занимательная»	Станция «Проверочная»
				

Станция «Самооценки» (поставьте «галочку» или «крестик» в соответствующем поле)



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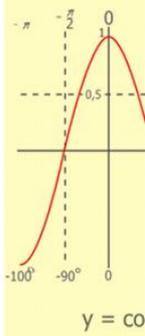
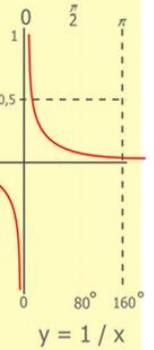
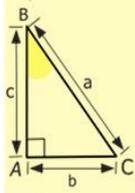
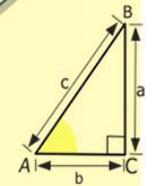
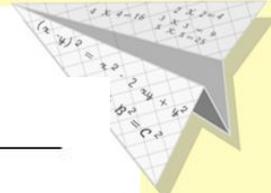
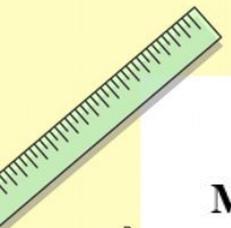


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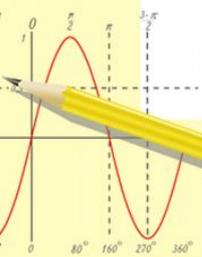
Данная тема оказалась для меня трудной

ИТОГОВАЯ ОТМЕТКА (выставляется учителем):



$$\begin{array}{r} 1 \\ 2500 \\ \times 42 \\ \hline 210 \\ + 84 \\ \hline 105000 \end{array}$$

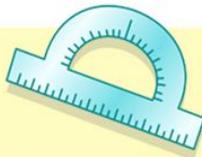
$$\begin{array}{l} 2 \times 2 = 4 \\ 3 \times 3 = 9 \\ 4 \times 4 = 16 \\ 5 \times 5 = 25 \\ 6 \times 6 = 36 \\ 7 \times 7 = 49 \\ 8 \times 8 = 64 \\ 9 \times 9 = 81 \end{array}$$



$$\frac{a}{\sin A} = \frac{b}{\sin B} = \frac{c}{\sin C}$$

$$\frac{a}{c} + \frac{b}{c} = \frac{a+b}{c}$$

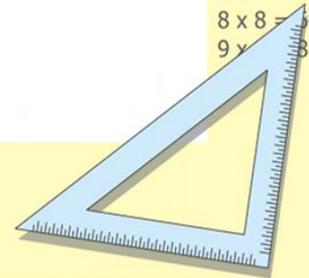
$$\sin 90^\circ = 1$$



$$\begin{cases} y = \sin 90 \\ x = 25y + 45 \end{cases}$$

$$\begin{cases} y = 1 \\ x = 25 + 45 \\ \hline x = 70 \end{cases}$$

$$(x+y)(x-y) = x^2 - y^2$$



СТАНЦИЯ «САМООЦЕНКИ»

Маршрутный лист ученика (ФИО, класс) _____

Станция
«Счетная»

Станция «Блиц-
Опрос»

Станция
«Сотрудничества»

Станция
«Занимательная»

Станция
«Проверочная»



Станция «Самооценки» (поставьте «галочку» или «крестик» в соответствующем поле)



Я все понял на уроке и
могу объяснить данную тему товарищу



Я усвоил тему, но объяснить ее не могу



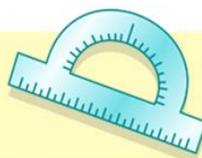
Данная тема оказалась для меня трудной

ИТОГОВАЯ ОТМЕТКА (выставляется учителем):

$$\frac{a}{\sin A} = \frac{b}{\sin B} = \frac{c}{\sin C}$$

$$\frac{a}{c} + \frac{b}{c} = \frac{a+b}{c}$$

$$\sin 90^\circ = 1$$

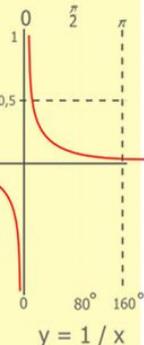
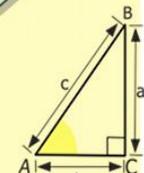
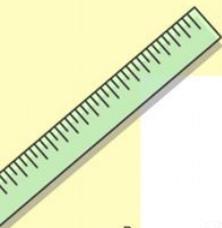


$$\begin{cases} y = \sin 20 \\ x = 25y + 45 \end{cases}$$

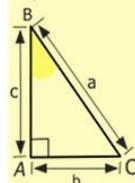
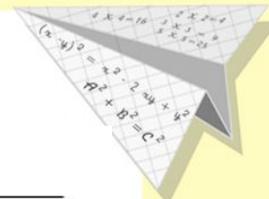
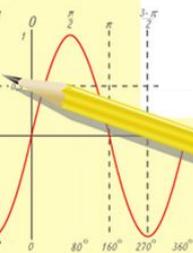
$$\begin{cases} y = 1 \\ x = 25 + 45 \end{cases}$$

$$x = 70$$

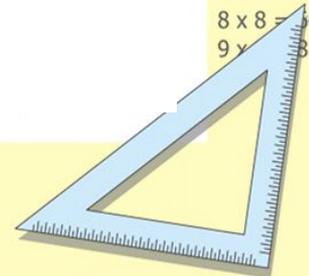
$$(x+y)(x-y) = x^2 - y^2$$



$$\begin{array}{r} 2500 \\ \times 42 \\ \hline 210 \\ + 84 \\ \hline 10500 \end{array}$$



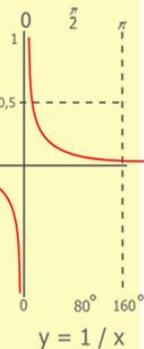
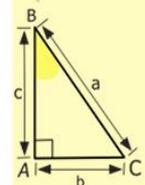
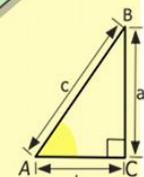
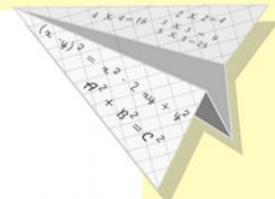
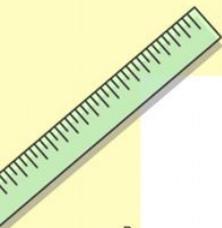
$$\begin{array}{l} 2 \times 2 = 4 \\ 3 \times 3 = 9 \\ 4 \times 4 = 16 \\ 5 \times 5 = 25 \\ 6 \times 6 = 36 \\ 7 \times 7 = 49 \\ 8 \times 8 = 64 \\ 9 \times 9 = 81 \end{array}$$



ДОМАШНЕЕ ЗАДАНИЕ

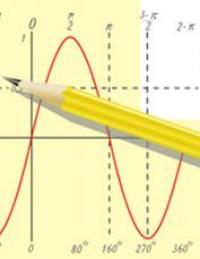
- Составить три выражения со скобками, перед которыми стоит знак «минус» или «плюс». Раскрыть скобки в выражении. Каждое выражение должно содержать не менее двух и не более пяти скобок

- Составить и решить три уравнения со скобками, перед которыми стоит знак «минус» или «плюс».



$$\begin{array}{r} \frac{1}{2} 500 \\ \times 42 \\ \hline 210 \\ + 84 \\ \hline 105000 \end{array}$$

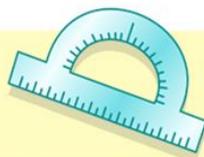
- 2 x 2 = 4
- 3 x 3 = 9
- 4 x 4 = 16
- 5 x 5 = 25
- 6 x 6 = 36
- 7 x 7 = 49
- 8 x 8 = 64
- 9 x 9 = 81



$$\frac{a}{\sin A} = \frac{b}{\sin B} = \frac{c}{\sin C}$$

$$\frac{a}{c} + \frac{b}{c} = \frac{a+b}{c}$$

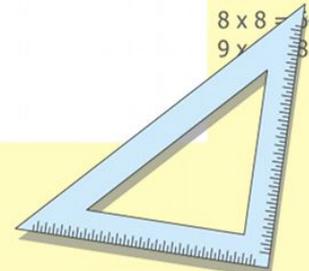
$$\sin 90^\circ = 1$$



$$\begin{cases} y = \sin 90 \\ x = 25y + 45 \end{cases}$$

$$\begin{cases} y = 1 \\ x = 25 + 45 \\ \hline x = 70 \end{cases}$$

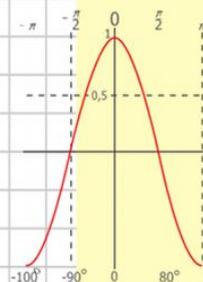
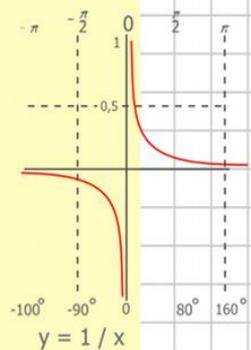
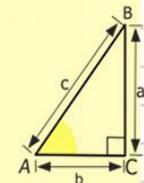
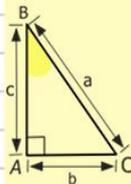
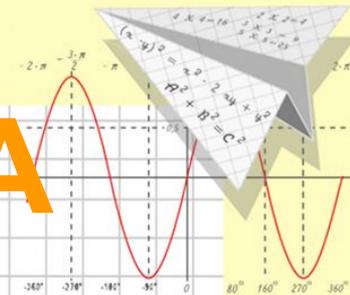
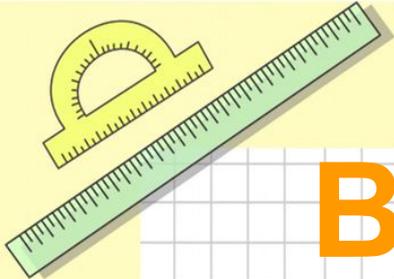
$$(x+y)(x-y) = x^2 - y^2$$



ВСЕМ^а СПАСИБО ЗА УРОК!

ВЫ БОЛЬШИЕ МОЛОДЦЫ!

ДО ЗАВТРА!



$$\begin{array}{r} 2500 \\ \times 42 \\ \hline 210 \\ + 84 \\ \hline 10500 \end{array}$$

$$y = \cos x$$

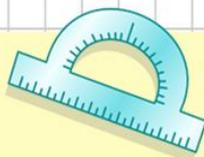
- $2 \times 2 = 4$
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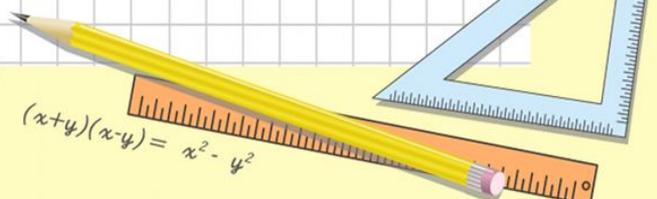
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