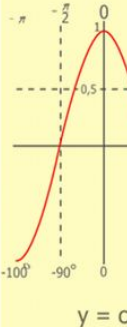
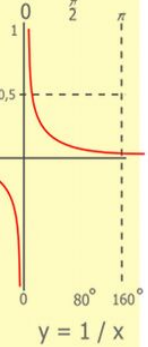
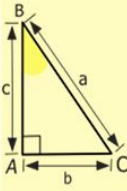
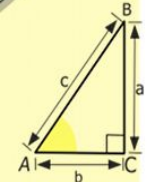
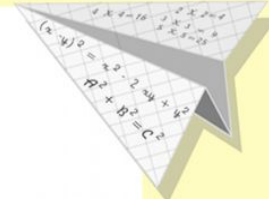
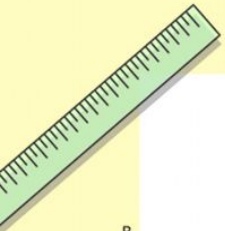


УРОК

по теме: "УРАВНЕНИЕ"



Выполнила: Васильева Валентина Михайловна
учитель математики МАОУСШ №1 с углублённым
изучением математики, физики и литературы



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

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



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

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

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

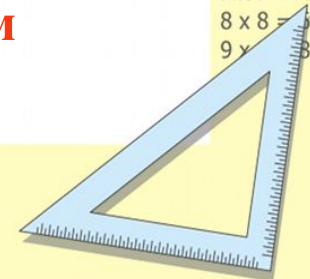


$$\begin{cases} y = \sin 90 \\ x = 25y + 45 \end{cases}$$

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

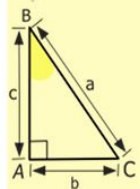
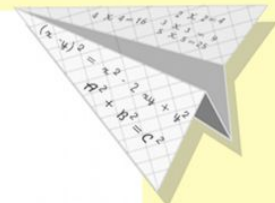
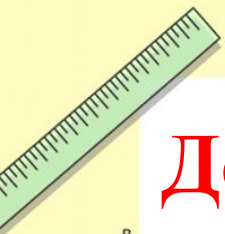
$$x = 70$$

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



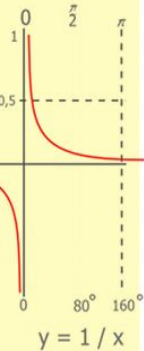
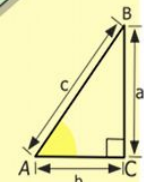
**Долгожданный дан звонок
Начинается урок.
Сегодня будем мы опять
Решать, отгадывать, смекать!**

- 1) 5,9,8,3,6**
2) 24+38, 42-13



$y = \cos$

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



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



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

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

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



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

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

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



КАКОЕ ИЗ ДАННЫХ ВЫРАЖЕНИЙ ЛИШНЕЕ?

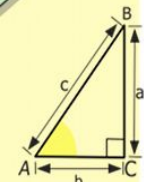
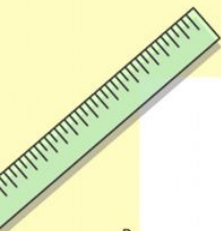
$$a+34$$

$$52+x$$

$$x+13=48$$

$$a-57$$

$$42-y$$



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



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

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

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

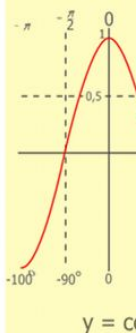
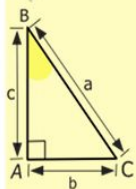
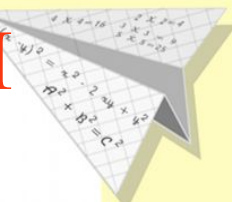


$$\begin{cases} y = \sin 90 \\ x = 25y + 45 \end{cases}$$

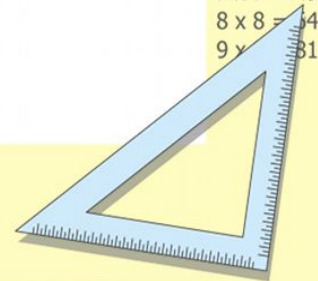
$$\begin{cases} y = 1 \\ x = 25 + 45 \end{cases}$$

$$x = 70$$

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



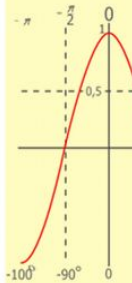
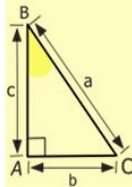
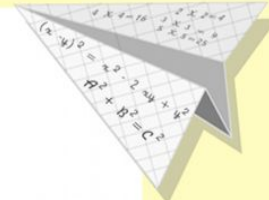
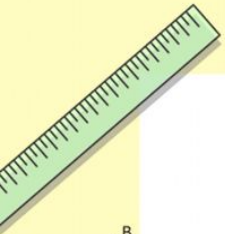
- 2 x 2 = 4
- 3 x 3 = 9
- 4 x 4 = 16
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- 8 x 8 = 64
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РЕШИТЕ УРАВНЕНИЕ

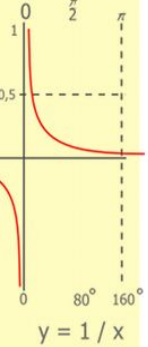
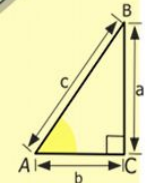
$$472 - X = 127$$

$$X - 93 = 228$$



$y = \cos$

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- $5 \times 5 = 25$
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$$\begin{array}{r} 2500 \\ \times 42 \\ \hline 2100 \\ + 840 \\ \hline 105000 \end{array}$$



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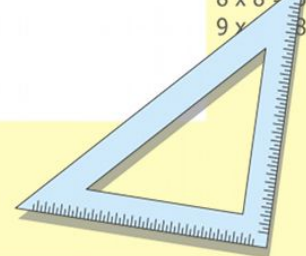
$$\sin 90^\circ = 1$$



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

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



ФИЗМИНУТКА

Вверх рука, вниз рука

Потянулись мы слегка

Быстро поменяли руки,

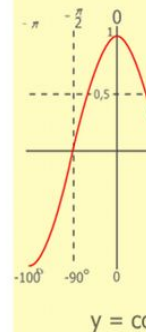
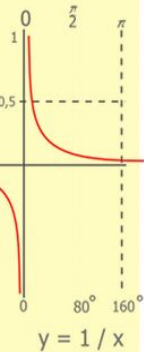
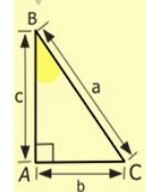
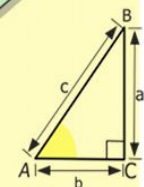
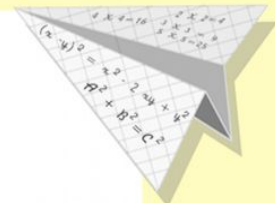
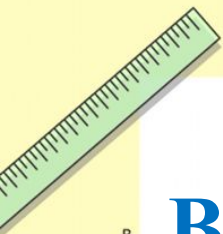
Нам сегодня не до скуки.

Крутим-вертим головой.

Разминаем шею....стой.

А теперь встряхнулись лихо

И на стул садимся тихо.



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

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



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

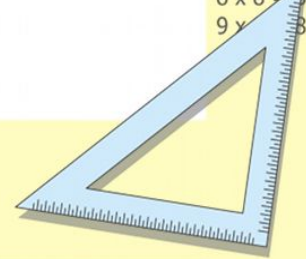
$$\sin 90^\circ = 1$$



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

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

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



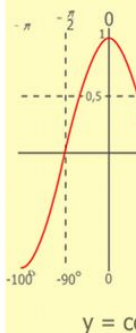
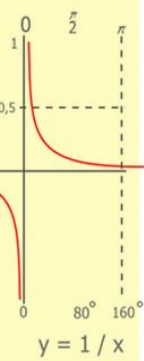
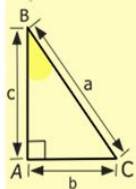
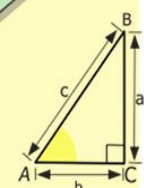
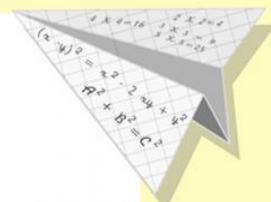
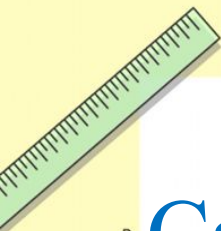
РЕШИТЕ ЗАДАЧУ

Саша нашёл 5 грибов, а Витя 8.
Сколько грибов нашли мальчики
вместе?

$$5+8=13$$

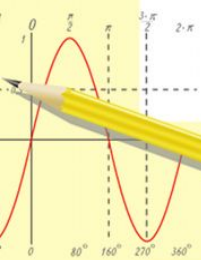
Саша нашёл **X** грибов, а Витя - 8.
Всего они нашли 13 грибов. Сколько
грибов нашёл Саша?

$$X+8=13$$



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

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

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

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

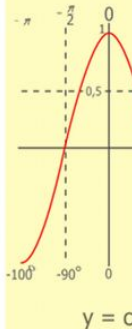
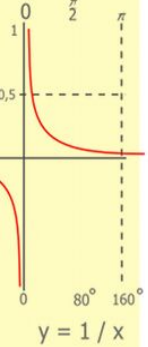
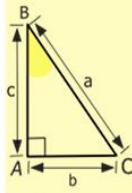
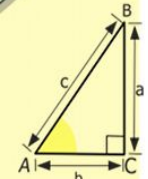
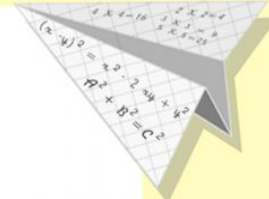
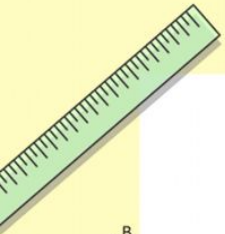
РЕШИТЕ ЗАДАЧУ

В мотке было x метров проволоки, когда 9 метров отрезали, то там осталось 25 метров проволоки. Сколько метров проволоки было в мотке?

$$x - 9 = 25$$

$$x = 25 + 9$$

$$x = 34$$



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

- $2 \times 2 = 4$
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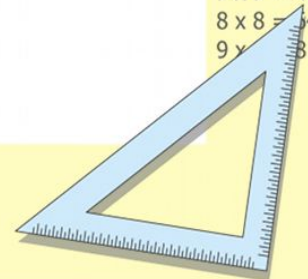


$$\begin{cases} y = \sin 90 \\ x = 25y + 45 \end{cases}$$

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

$$x = 70$$

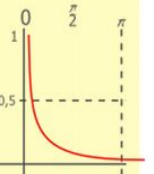
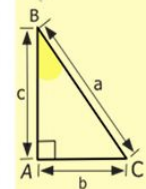
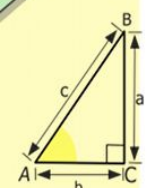
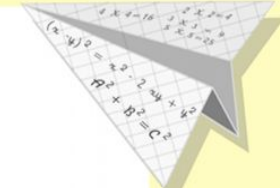
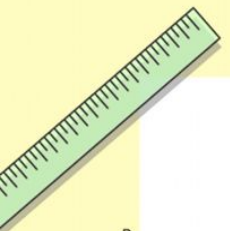
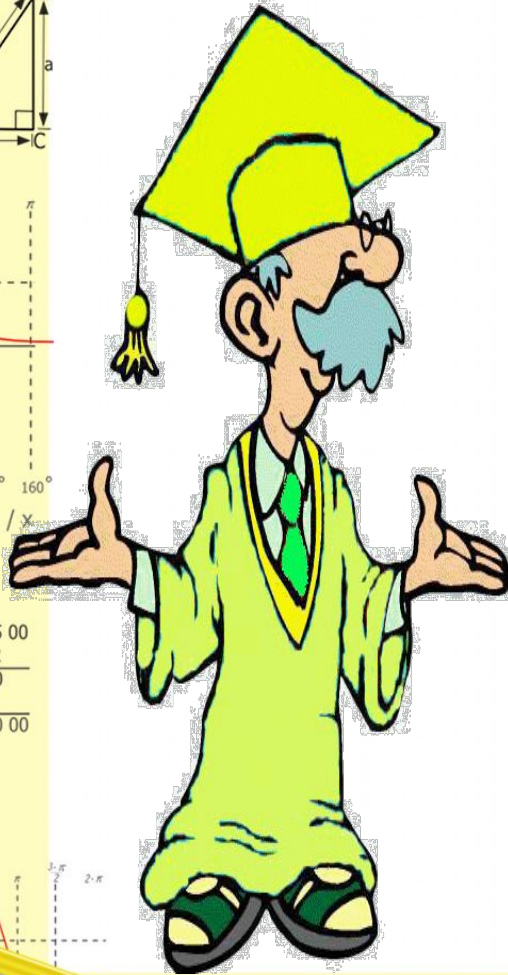
$$(x+y)(x-y) = x^2 - y^2$$



ДОМАШНЕЕ ЗАДАНИЕ

§ 10, вопросы 1 – 5,
№268, 270, 278

СПАСИБО ЗА УРОК



$$y = 1/x$$

$$\begin{array}{r} 1\ 2\ 5\ 00 \\ \times 4\ 2 \\ \hline 21\ 0 \\ + 84\ 0 \\ \hline 105\ 0\ 00 \end{array}$$

- 2 x 2 = 4
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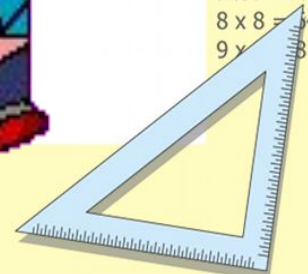
$$\sin 90^\circ = 1$$



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

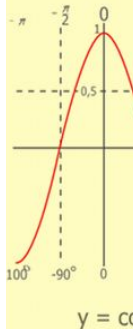
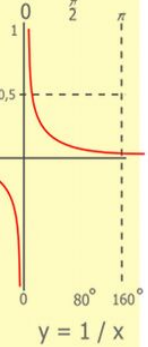
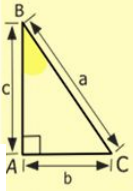
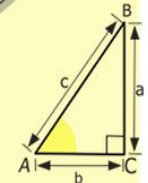
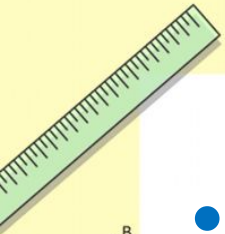
$$\begin{cases} y = 1 \\ x = 25 + 45 \\ \hline x = 70 \end{cases}$$

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



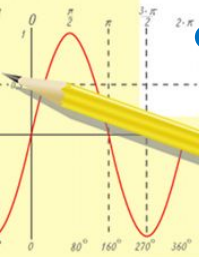
РЕФЛЕКСИЯ

- сегодня я узнал...
- было интересно...
- было трудно...
- я выполнял задания...
- я понял, что...
- теперь я могу...
- я почувствовал, что...
- я научился...
- у меня получилось ...
- я СМОГ...



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

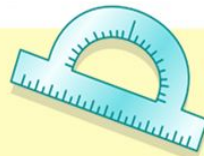
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$$\frac{a}{\sin A} = \frac{b}{\sin B} = \frac{c}{\sin C}$$

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

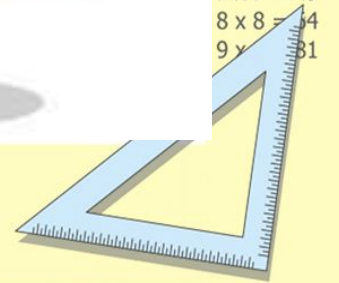
$$\sin 90^\circ = 1$$



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

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

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



РЕСУРСЫ

1. Мерзляк А.Г. и др. Математика. 5 класс: учебник для общеобразовательных организаций / Вентара -Граф, 2016.

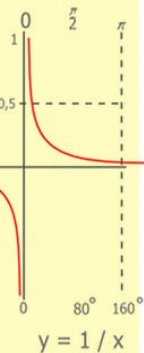
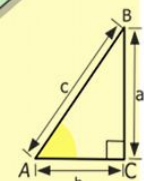
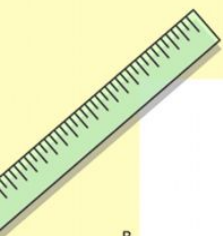
2. Рисунки:

<http://www.zjammie.nl/plaatjes-school2.htm>

3. Анимированные картинки:

<http://animashky.ru/index/0-6>

4. Шаблон: <http://office.microsoft.com/ru>



$$\begin{array}{r} 1\ 5\ 00 \\ \times 4\ 2 \\ \hline 21\ 0 \\ + 84\ 0 \\ \hline 105\ 0\ 00 \end{array}$$



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

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

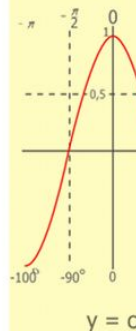
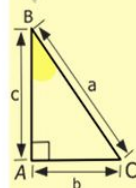
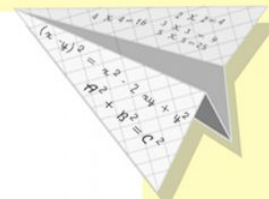
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$$\begin{array}{l} 2 \times 2 = 4 \\ 3 \times 3 = 9 \\ 4 \times 4 = 16 \\ 5 \times 5 = 25 \\ 6 \times 6 = 36 \\ 7 \times 7 = 49 \\ 8 \times 8 = 64 \\ 9 \times 9 = 81 \end{array}$$

