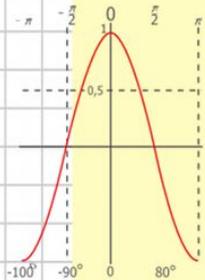
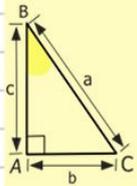
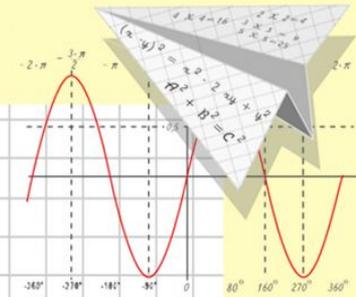
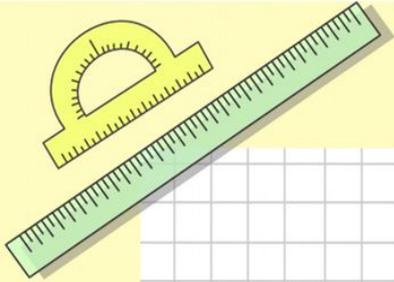


Математик

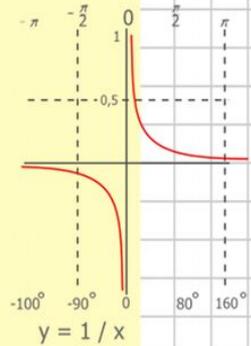
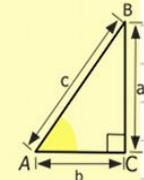
а

Мультимедиа-презентация как средство обучения математики в начальной школе.



$y = \cos x$

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



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

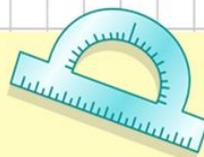


$$\frac{a}{\sin A} = \frac{b}{\sin B} = \frac{c}{\sin C}$$

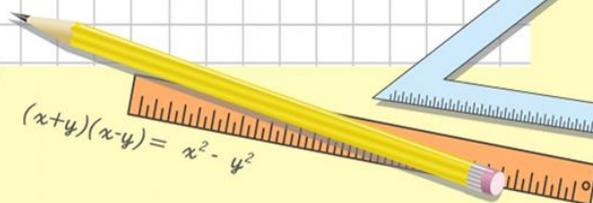
$$\frac{a}{c} + \frac{b}{c} = \frac{a+b}{c}$$



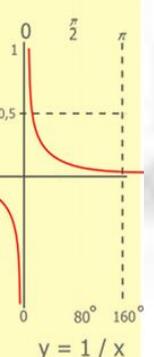
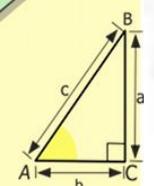
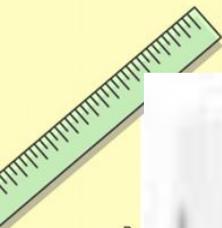
$$\sin 90^\circ = 1$$



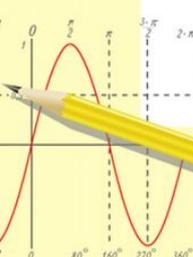
$$\begin{cases} y = \sin 90 \\ x = 25y + 45 \\ y = 1 \\ x = 25 + 45 \\ \hline x = 70 \end{cases}$$



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

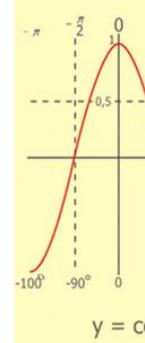
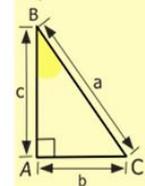
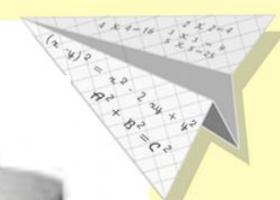


$$\begin{array}{r} 1 \\ \times 2500 \\ \hline 2500 \\ + 42 \\ \hline 210 \\ + 84 \\ \hline 105000 \end{array}$$



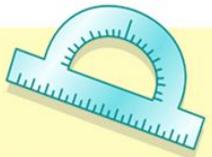
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$$\frac{a}{c} + \frac{b}{c} = \frac{a+b}{c}$$



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- 7 x 7 = 49
- 8 x 8 = 64
- 9 x 9 = 81

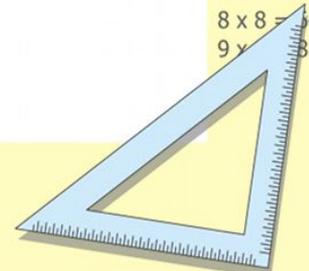
$$\sin 90^\circ = 1$$



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

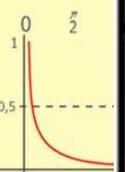
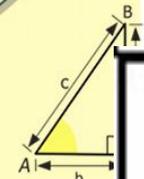
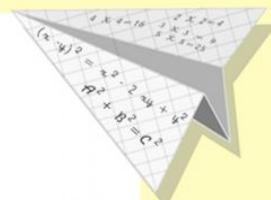
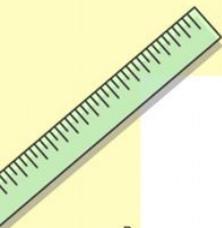
$$\begin{cases} y = 1 \\ x = 25 + 45 \\ \hline x = 70 \end{cases}$$

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



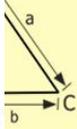
Усвоение информации:

Способ предъявления информации	Сохранность через 3 ч, %	Сохранность через 3 дня, %
Устное изложение	70	10
Визуальное восприятие	72	20
Аудиовизуальное восприятие	85	50



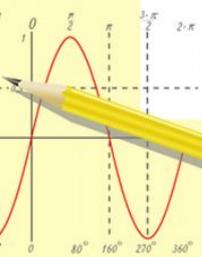
$y = 1/x$

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



$y = \cos$

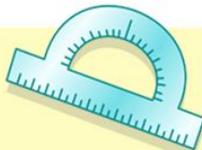
$$\begin{array}{l} = 4 \\ = 9 \\ 4 \times 4 = 16 \\ 5 \times 5 = 25 \\ 6 \times 6 = 36 \\ 7 \times 7 = 49 \\ 8 \times 8 = 64 \\ 9 \times 9 = 81 \end{array}$$



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

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

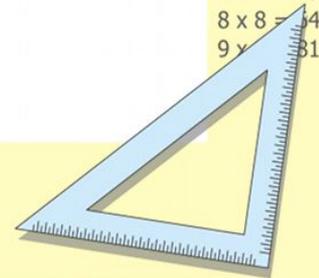
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$$\begin{cases} y = \sin 90 \\ x = 25y + 45 \end{cases}$$

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

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



Применение мультимедиа на уроках математики

Использование готовых программных продуктов

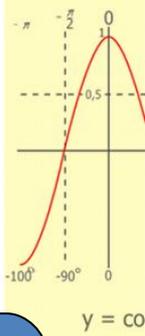
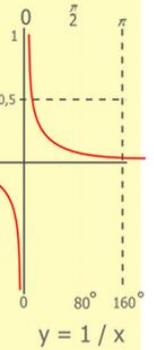
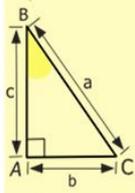
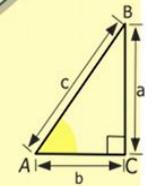
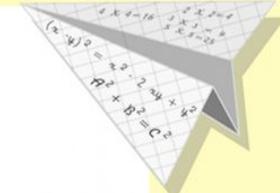
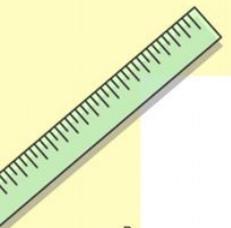
Создание собственных программных продуктов

Программы на дисках

Программы из Интернета

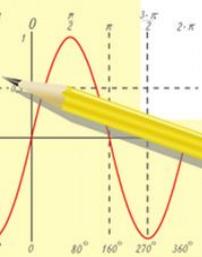
Разработка учителя

Проекты учащихся



$$\begin{array}{r} 1 \\ \times 25 \\ 25 \\ + 42 \\ 210 \\ + 84 \\ \hline 1050 \end{array}$$

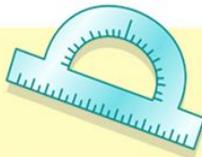
$$\begin{array}{l} 2 = 4 \\ 3 = 9 \\ 4 = 16 \\ 5 = 25 \\ 6 = 36 \\ 7 = 49 \\ 8 \times 8 = 64 \\ 9 \times 9 = 81 \end{array}$$



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

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

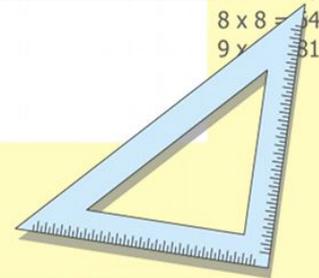
$$\sin 90^\circ = 1$$



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

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

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

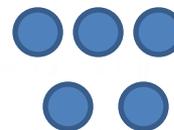
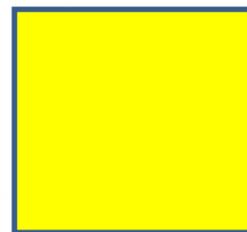
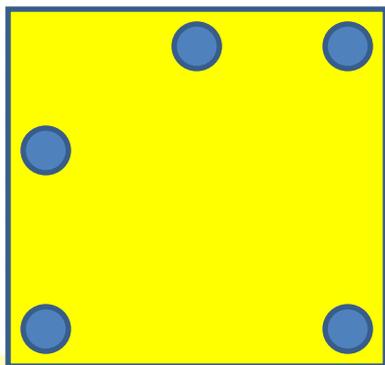


Задачи – смекалки

Если из наименьшего двузначного числа вычесть наибольшее однозначное число, то получится....

$$10 - 9 = 1$$

Как в комнате расставить 5 стульев, чтобы у каждой из четырёх стен стояло по 2 стула.



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

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

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

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

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$$x = 70$$

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

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

Подарки деда Мороза

Мы на ёлке веселились,
Мы плясали и резвились.
После добрый дед Мороз
Нам подарки приподнёс.
Дал большущие пакеты,
В них же – вкусные предметы.
Стала я пакет вскрывать,
Содержимое считать:

5 конфет в бумажках синих,
5 орехов рядом с ним,
Груша с яблоком, один
Золотистый мандарин,
Плитка шоколада –
Вот была я рада!
Всё лежит в одном пакете,
Сосчитай предметы эти.



14

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

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

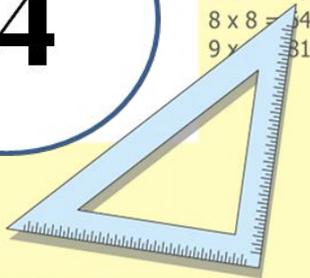
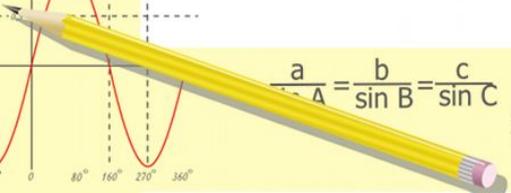
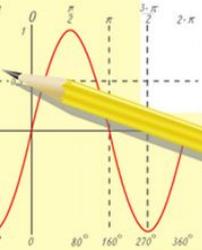
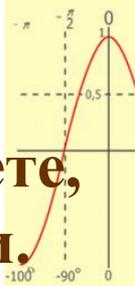
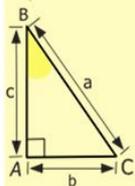
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$$(x+y)(x-y) = x^2 - y^2$$

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

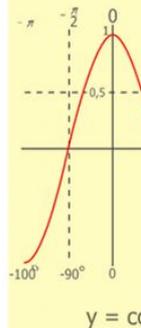
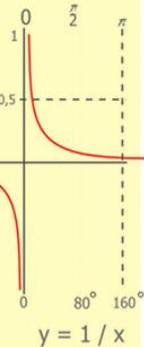
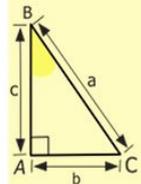
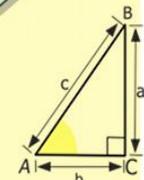
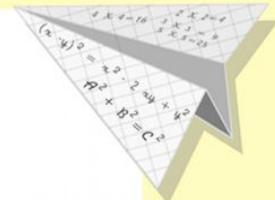
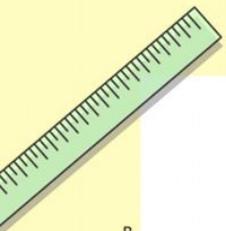
- 2 x 2 = 4
- 3 x 3 = 9
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- 7 x 7 = 49
- 8 x 8 = 64
- 9 x 9 = 81



Разгадай ребусы.

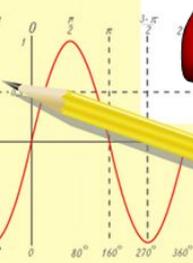
По 2 л 7 я

40 а 100 лб



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

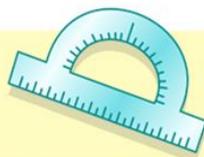
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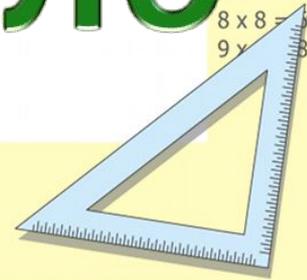


$$\begin{cases} y = \sin 90 \\ x = 25y + 45 \end{cases}$$

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

$$x = 70$$

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





Лена



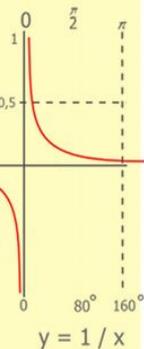
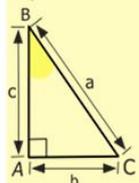
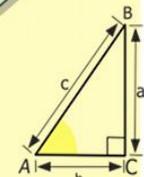
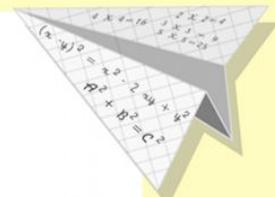
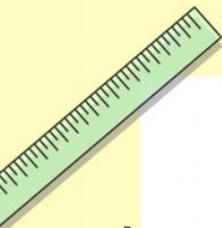
Даша



Таня

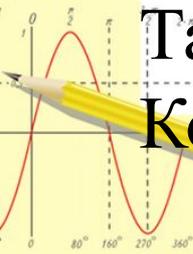
Жили-были три девочки: Таня, Лена и Даша.
Таня выше Лены, Лена выше Даши.

Кого из них как зовут?



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

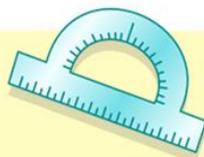
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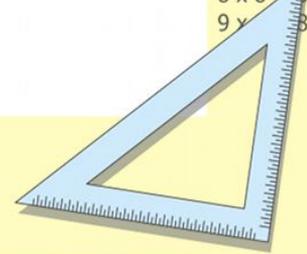
$$\sin 90^\circ = 1$$



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



Поиск закономерностей

Проследи, как получается каждое следующее число и назови в каждый ряд ещё по 1 числу

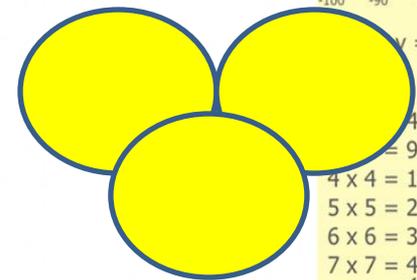
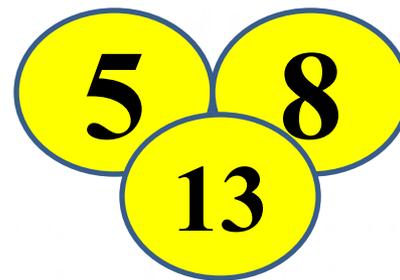
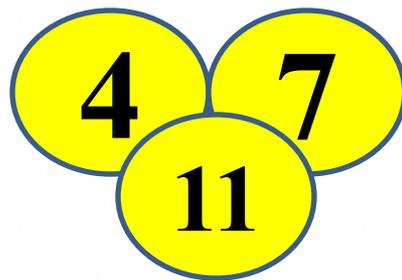
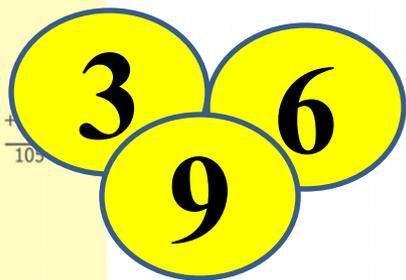
1) 0, 2, 4, 6, 8, **.10**

3) 1, 2, 4, 7, 11, **.16**

2) 1, 4, 7, 10, **.13**

4) 4, 8, 12, **.16**

Найдите связь между числами заполните свободные кружки



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

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

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

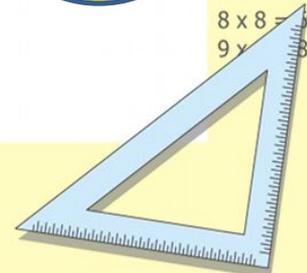
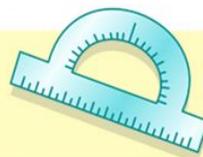
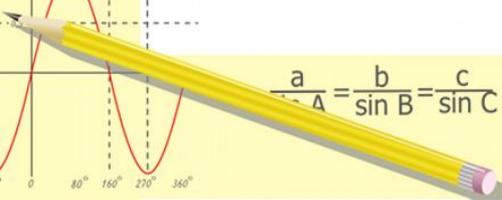
$$\sin 90^\circ = 1$$

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

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

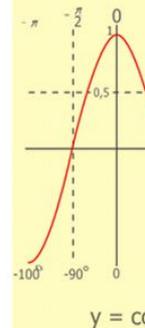
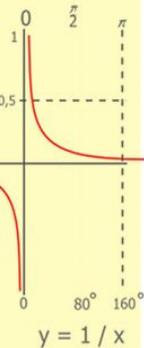
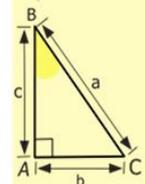
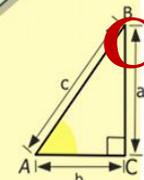
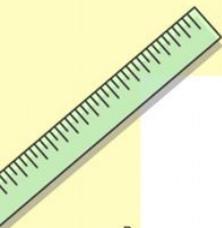
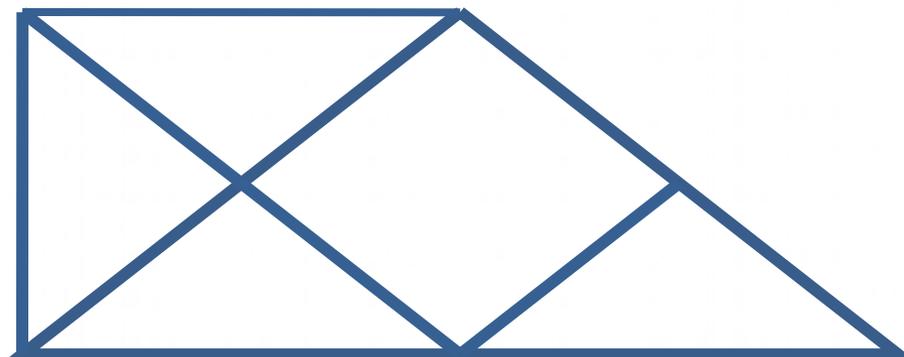
$$x = 70$$

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



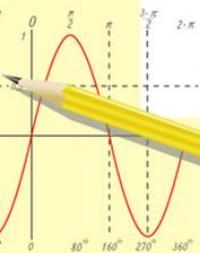
Будь внимательным

Сколько на чертеже различных треугольников?



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

- 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



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

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

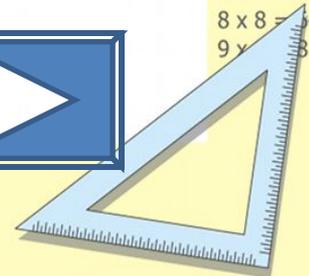
$$\sin 90^\circ = 1$$



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

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

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



Назови «соседей» числа:

..., 59,

..., 11,

..., 75,

..., 30,

...

Найди лишнее

...

40

число:

40

Оно округлое,
сумма его цифр 8, а
а остальные нет.
у остальных чисел –
два нуля, нули
одинаковые



Решение учебной задачи

$$146 \cdot 24$$

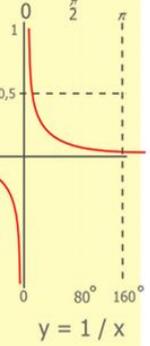
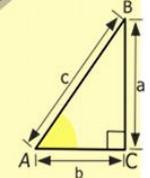
$$274 \cdot 36$$

$$231 \cdot 45$$

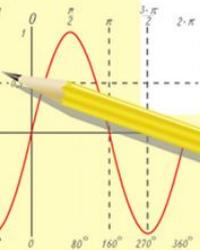
$$631 \cdot 15$$

$$523 \cdot 41$$

$$132 \cdot 23$$



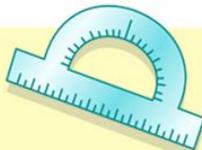
$$\begin{array}{r} 1\ 2\ 5\ 00 \\ \times 42 \\ \hline 210 \\ + 84 \\ \hline 105\ 000 \end{array}$$



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

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

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

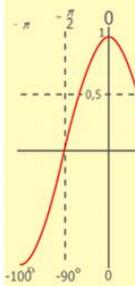
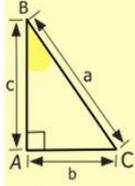
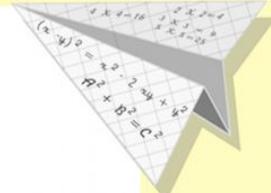


$$\begin{cases} y = \sin 90 \\ x = 25y + 45 \end{cases}$$

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

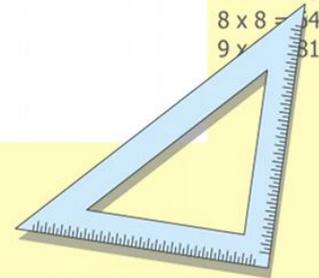
$$x = 70$$

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



$$y = \cos$$

- $2 \times 2 = 4$
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- $6 \times 6 = 36$
- $7 \times 7 = 49$
- $8 \times 8 = 64$
- $9 \times 9 = 81$



*Прочти условие задачи и объясни,
что узнаешь, выполнив действия:*

*В осеннем букете 25 кленовых
листьев, 13 – дубовых и 10 –
берёзовых.*

~~$25 + 13 = 38$~~

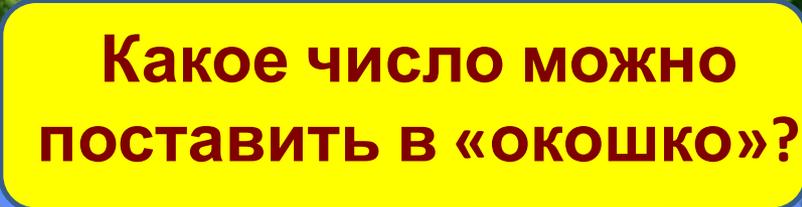
~~$25 + 10 + 13 = 48$~~

~~$13 + 10 = 23$~~

~~$25 - 10 = 15$~~

*На сколько кленовых
дубовых и берёзовых
листьев больше в
листьев вместе в
букете.
вместе.*





Какое число можно
поставить в «ОКОШКО»?

$$100 + 45 < 100 + \square$$

$$300 - 72 < 300 - \square$$



Вставь в квадраты пропущенные цифры

$$\begin{array}{r} + 34 \\ 21 \\ \hline 55 \end{array}$$

$$\begin{array}{r} + 22 \\ 68 \\ \hline 90 \end{array}$$

$$\begin{array}{r} + 58 \\ 17 \\ \hline 75 \end{array}$$

$$\begin{array}{r} + 39 \\ 28 \\ \hline 67 \end{array}$$

$$\begin{array}{r} + 46 \\ 47 \\ \hline 93 \end{array}$$



Поставь знаки $>$, $<$, $=$

$$9 \cdot (5+4) \dots 9 \cdot 5 + 4$$

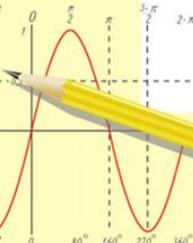
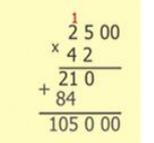
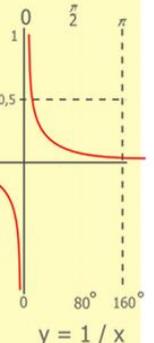
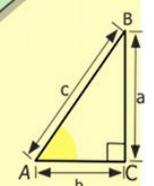
$$24 : 8 + 4 \dots 24 : (8 + 4)$$

$$3 \cdot (5+4) - 8 \dots 3 \cdot 5 + 4$$

$$8 : (9-7) - 1 \dots 4 \cdot 4 - 8$$

$$8 \cdot 7 - 16 \dots 8 \cdot (7-2)$$

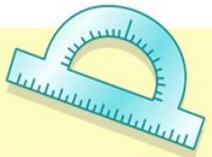
$$63 : 7 + 2 \dots 63 : (7+2)$$



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

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

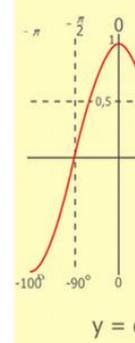
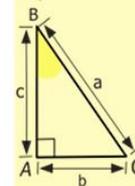
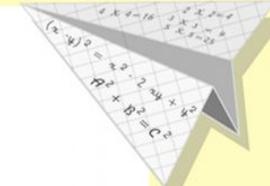
$$\sin 90^\circ = 1$$



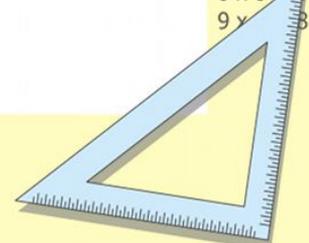
$$\begin{cases} y = \sin 90 \\ x = 25y + 45 \end{cases}$$

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

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



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Найди значение

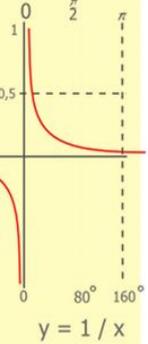
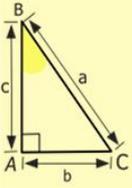
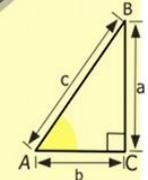
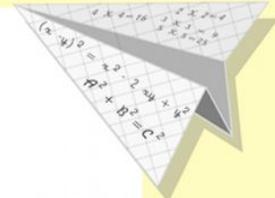
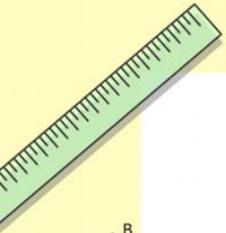
выражений

$$253 \cdot 4$$

$$267 \cdot 3$$

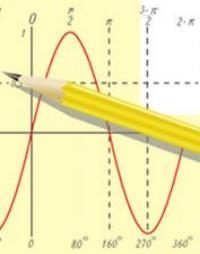
$$146 \cdot 24$$

$$4162 \cdot 2$$



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

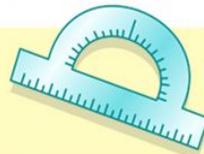
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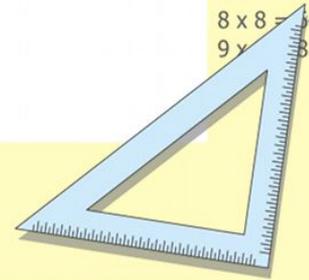
$$\sin 90^\circ = 1$$



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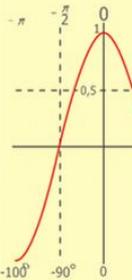
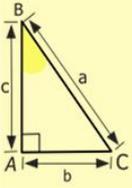
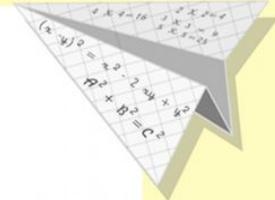
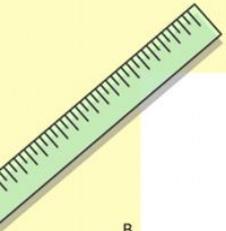
$$\begin{cases} y = 1 \\ x = 25 + 45 \\ \hline x = 70 \end{cases}$$

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



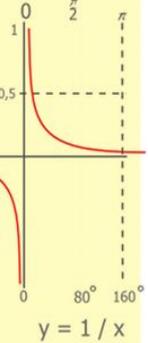
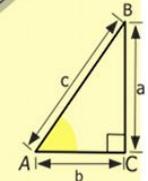
Физминутка

Руки вверх поднимем - раз
Выше носа, выше глаз.
Прямо руки вверх держать
Не качаться. не дрожать.
Три - опустили руки вниз,
Стой на месте не вертись.
Вверх раз, два, три, четыре, вниз!
Повторяем, не ленись!
Будем делать повороты
Выполняйте все с охотой.
Раз - налево поворот,
Два - теперь наоборот.
Так, ничуть, не торопясь,
Повторяем 8 раз.



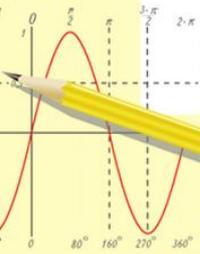
$$y = \cos$$

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$$y = 1/x$$

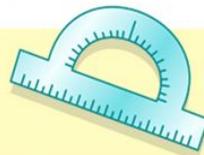
$$\begin{array}{r} 1 \\ \times 2500 \\ \hline 210 \\ + 84 \\ \hline 10500 \end{array}$$



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

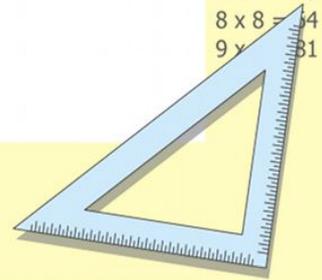


$$\begin{cases} y = \sin 90 \\ x = 25y + 45 \end{cases}$$

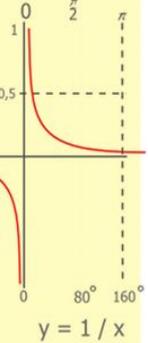
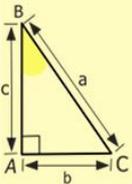
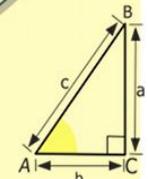
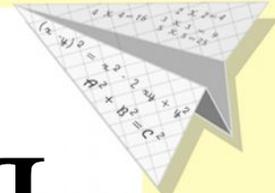
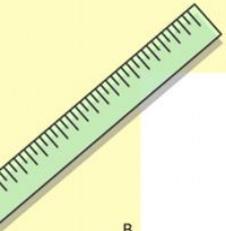
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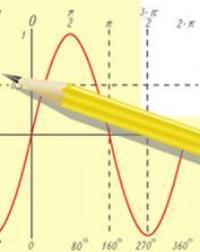


Самостоятельная работа в парах



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

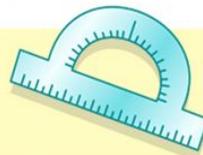
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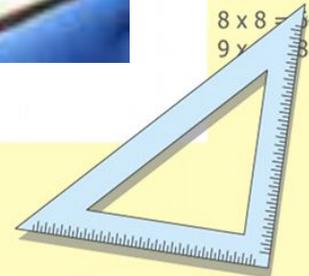
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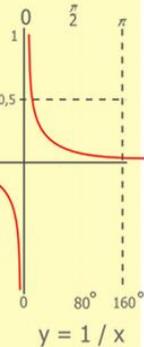
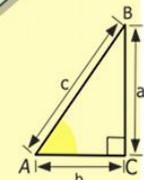
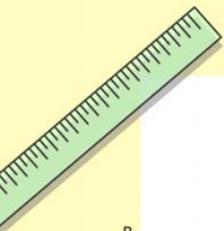
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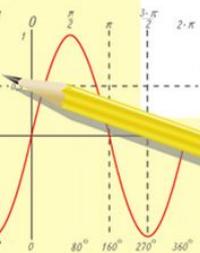


Самооценка

Уровни успешности	Шкала в баллах
Не достигнут необходимый уровень	0
Необходимый уровень («хорошо»)	-1 балл успешности (помощь или ошибка) -2 балла успешности
Программный уровень («отлично»)	-3 балла успешности (помощь или ошибка) -4 балла успешности
Максимальный уровень («превосходно»)	-5 баллов успешности (помощь или ошибка) -6 баллов успешности



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



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

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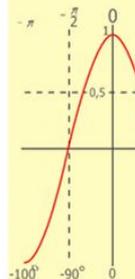
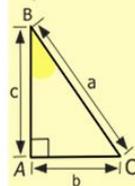
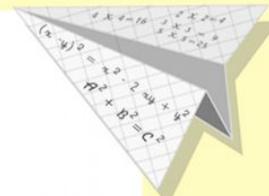
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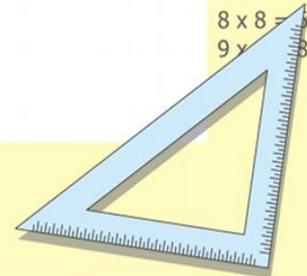
$$\begin{cases} y = 1 \\ x = 25 + 45 \\ \hline x = 70 \end{cases}$$

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

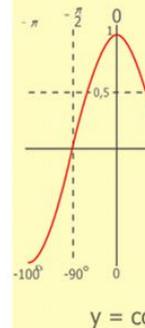
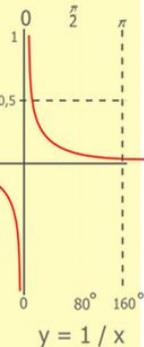
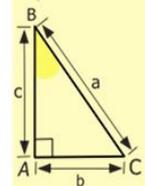
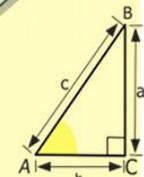
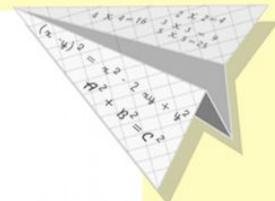
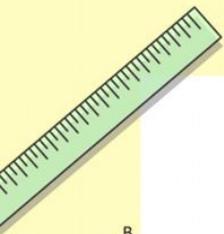


$$y = \cos$$

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

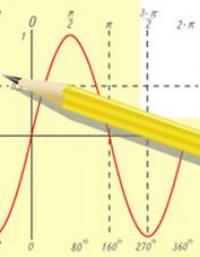


Мультимедийные презентации на уроках математики позволяют повысить качество усвоения учебного материала и выступают эффективным средством обучения.



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

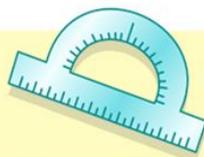
- $2 \times 2 = 4$
- $3 \times 3 = 9$
- $4 \times 4 = 16$
- $5 \times 5 = 25$
- $6 \times 6 = 36$
- $7 \times 7 = 49$
- $8 \times 8 = 64$
- $9 \times 9 = 81$



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

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

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



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

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

$$x = 70$$

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

