

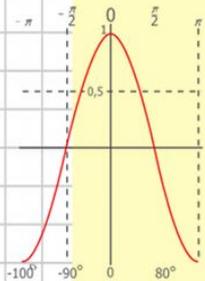
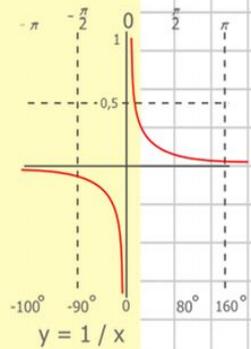
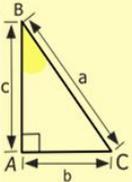
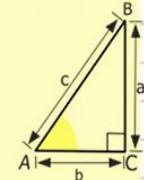
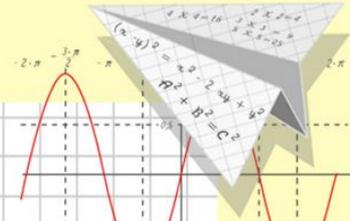
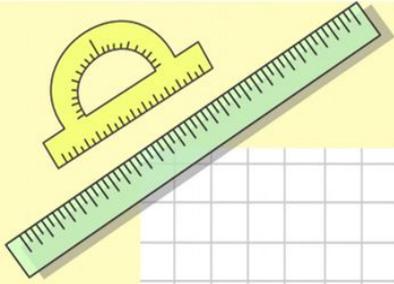
Математик

а

Математика вокруг нас

Составляем сборник математических задач и заданий

Подготовила
учитель начальных классов
Сюрина Марина Петровна



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

$y = \cos x$

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

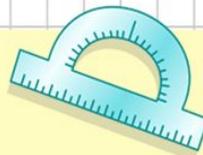


$$\frac{a}{\sin A} = \frac{b}{\sin B} = \frac{c}{\sin C}$$

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



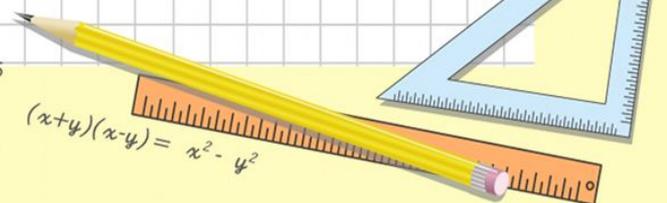
$$\sin 90^\circ = 1$$



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

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

$$x = 70$$



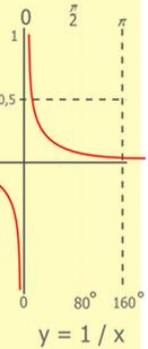
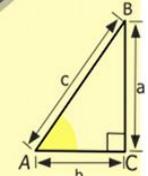
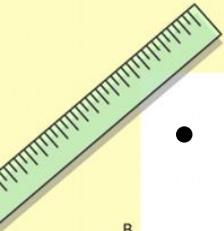
$$(x+y)(x-y) = x^2 - y^2$$

Цели

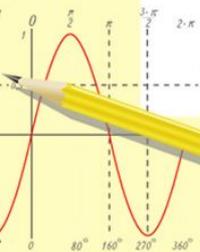
- Показать значимость и актуальность математики в нашей жизни.
- Научиться составлять задачи, примеры, записывать информацию в виде различных математических моделей.

Задачи

- Составить текстовые задачи по математике



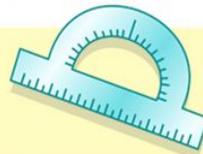
$$\begin{array}{r} 2500 \\ \times 42 \\ \hline 2100 \\ + 840 \\ \hline 105000 \end{array}$$



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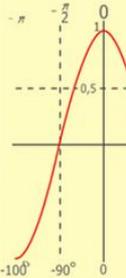
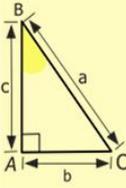
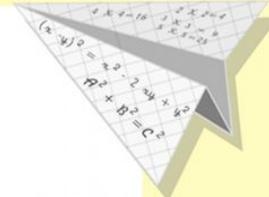
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$$\begin{cases} y = \sin 90 \\ x = 25y + 45 \end{cases}$$

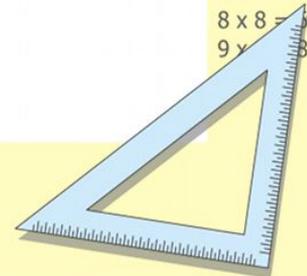
$$\begin{cases} y = 1 \\ x = 25 + 45 \\ \hline x = 70 \end{cases}$$

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



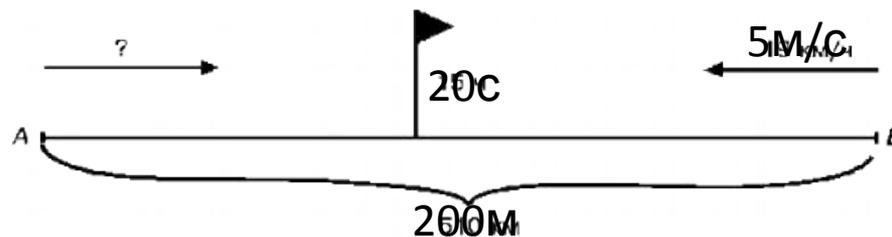
$$y = \cos$$

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



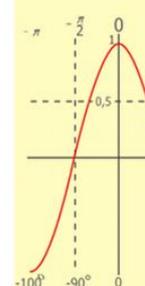
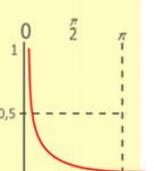
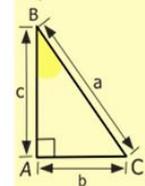
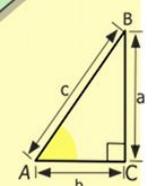
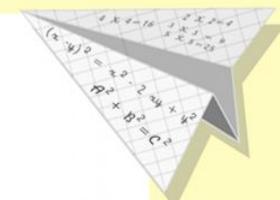
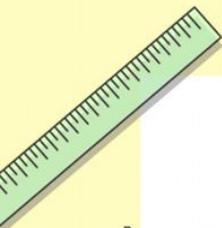
Задачи на ДВИЖЕНИЕ

Два мальчика одновременно побежали навстречу друг другу по спортивной дорожке, длина которой 200 м. Они встретились через 20 с. Первый бежал со скоростью 5 м/с. С какой скоростью бежал второй мальчик?



Решение:
 $200:20-5=5$ м/с –бежит первый мальчик.

Ответ: 5 м/с бежит первый мальчик.

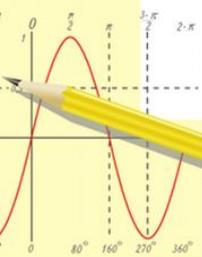


$$y = 1/x$$

$$y = \cos$$

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

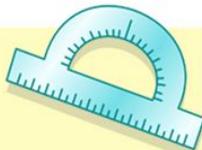
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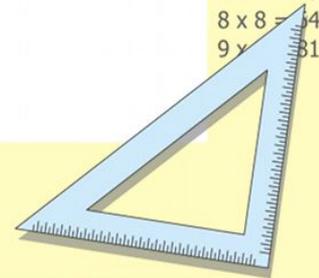
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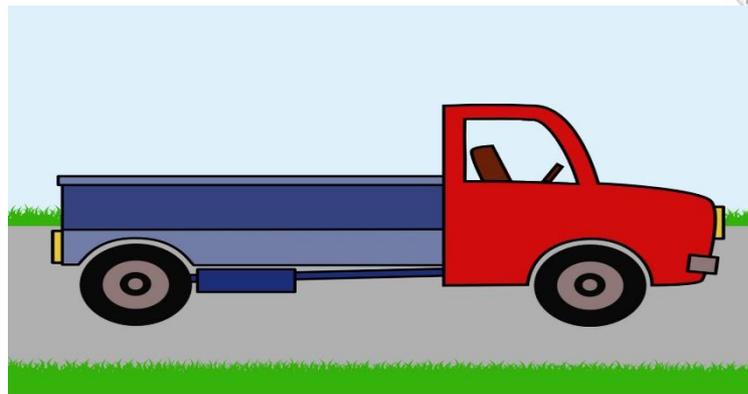
$$\begin{cases} y = \sin 90 \\ x = 25y + 45 \end{cases}$$

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

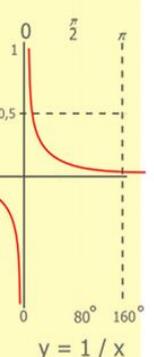
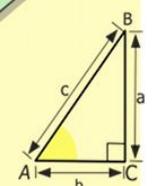
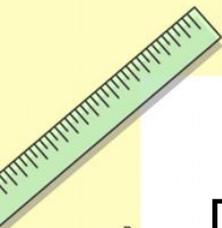
$$(x+y)(x-y) = x^2 - y^2$$



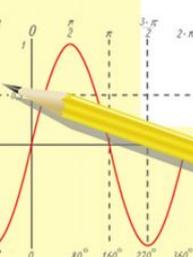
Грузовой и легковой автомобили отправились от автостанции в разных направлениях. За одно и тоже время грузовик проехал 70 км, а легковой автомобиль 140 км. С какой скоростью двигался легковой автомобиль, если скорость грузовика 35 км/час?



Решени
е:
1) $70 : 35 = 2$ ч- затратил на дорогу грузовик
2) $140 : 2 = 70$ км/ч - скорость легкового автомобиля
Выражение: $140 : (70 : 35) = 70$ км/ч
Ответ: 70 км/час скорость легкового автомобиля.



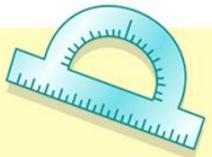
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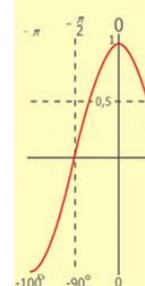
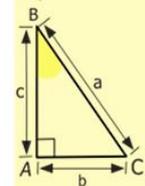
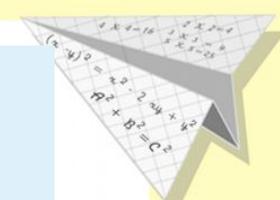
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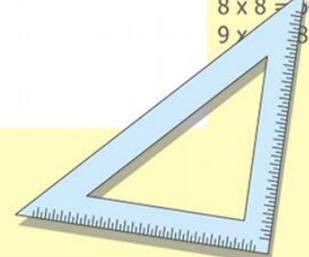
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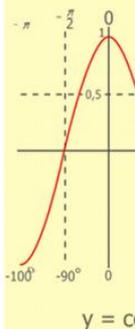
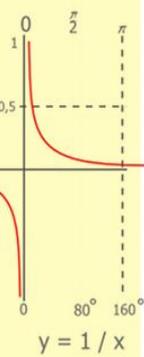
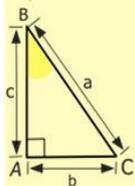
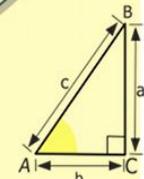
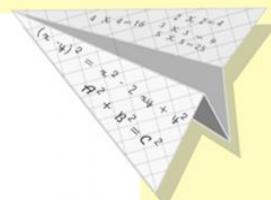
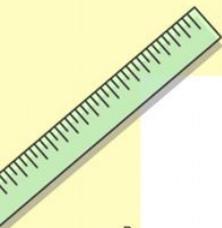


Логические задачи

Несколько детей собирали макулатуру. А каждый мальчик собрал по 21 кг, а каждая девочка по 15 кг. Всего ребята собрали 174 кг макулатуры. Сколько мальчиков и сколько девочек собирали макулатуру?

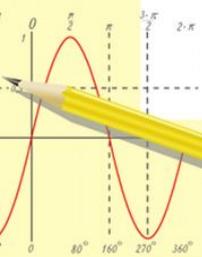


(4 мальчика и 6 девочек)



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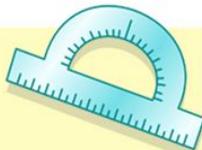
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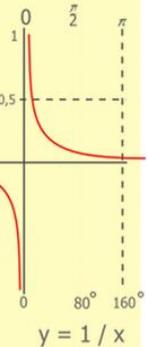
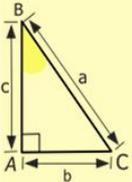
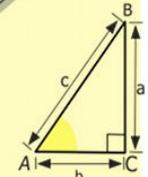
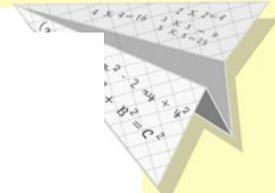
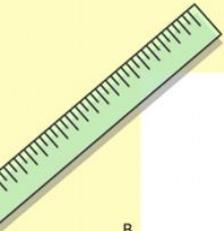
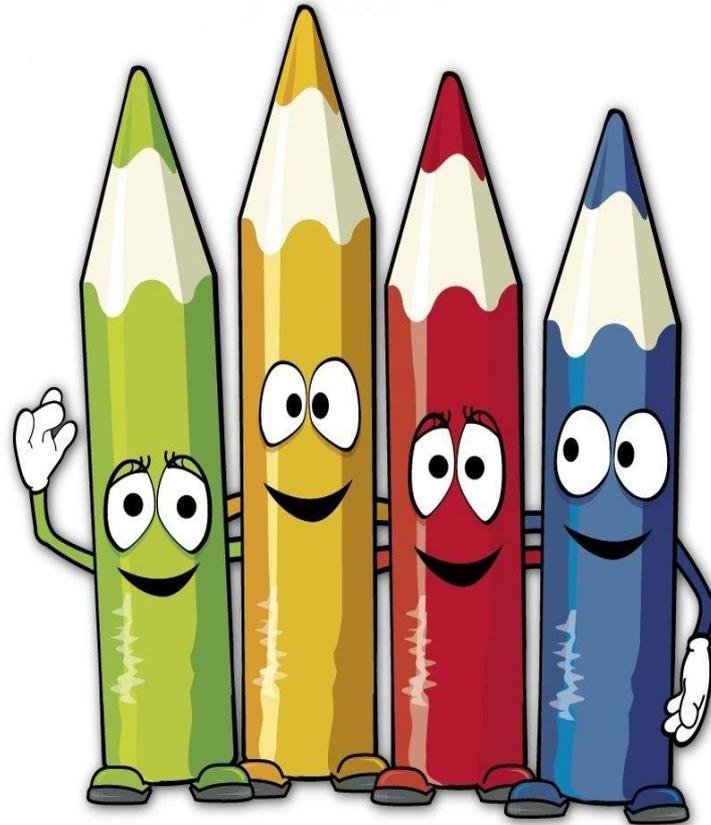


$$\begin{cases} y = \sin 90 \\ x = 25y + 45 \\ y = 1 \\ x = 25 + 45 \\ \hline x = 70 \end{cases}$$

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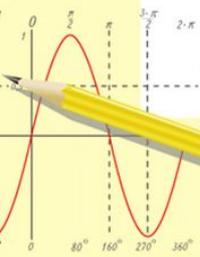


У троих братьев всего 9 карандашей. У младшего на 1 карандаш меньше, а у старшего – на 1 карандаш больше, чем у среднего. Сколько карандашей у каждого из братьев?



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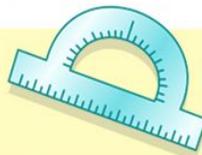


(2, 3, 4
карандаша)

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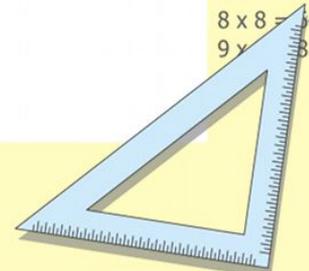
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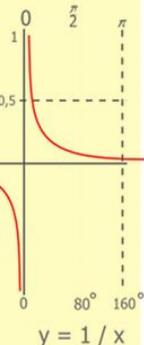
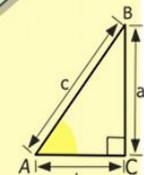
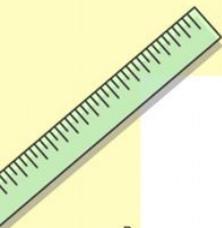
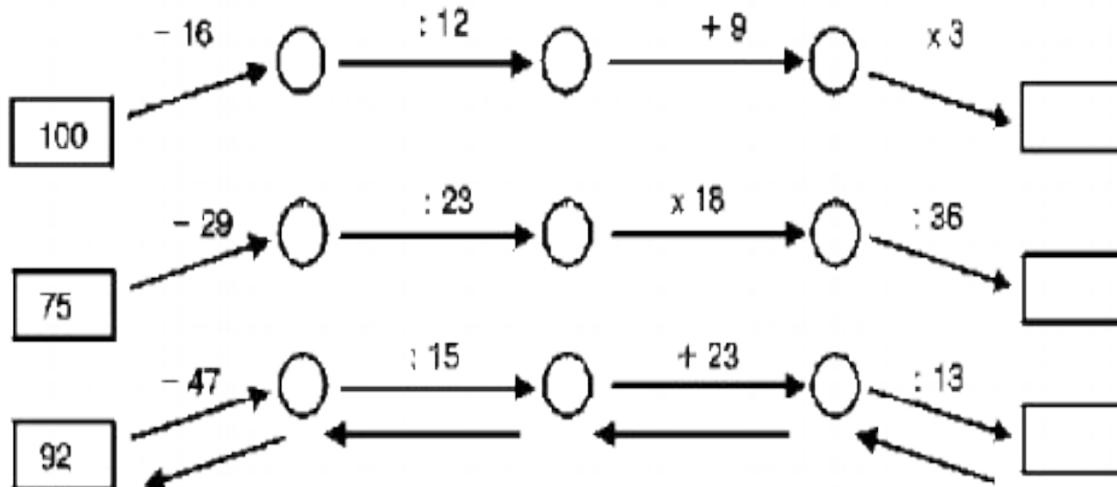
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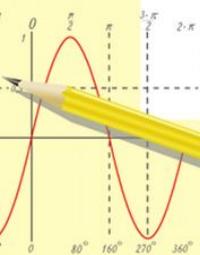
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Математическая цепочка



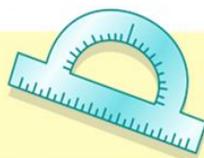
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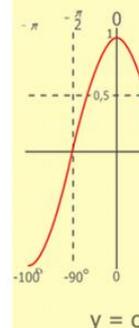
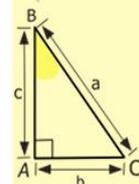
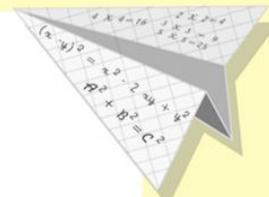
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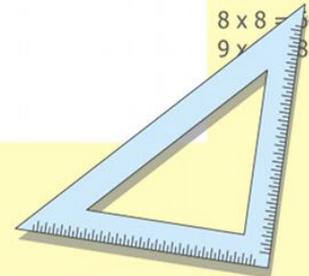
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1м34см

1м5см

Длина прямоугольника равна 1м 34см, а ширина 1м5см. Найди площадь этого прямоугольника.

P=32см

Периметр квадрата 32см. Найти его площадь.

Решение:

1) $32 : 4 = 8(\text{см})$ - сторона квадрата

2) $8 * 8 = 64(\text{кв.см})$

Ответ: 64кв.см - площадь квадрата

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

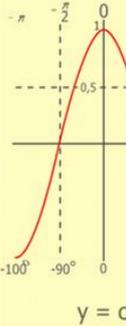
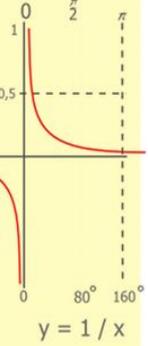
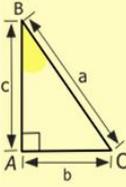
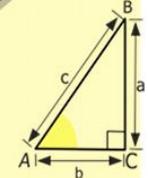
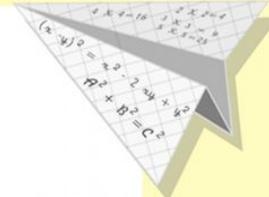
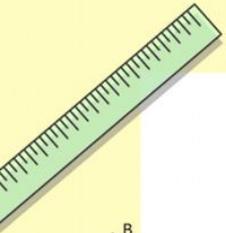
$$\frac{a}{c} + \frac{b}{c} = \frac{a+b}{c}$$

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

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

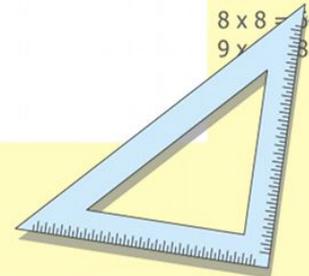
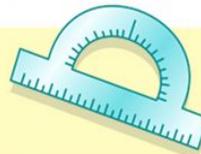
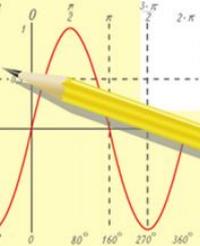
$$\begin{cases} y = 1 \\ x = 25 + 45 \\ \hline x = 70 \end{cases}$$

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



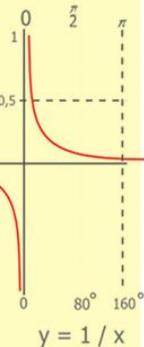
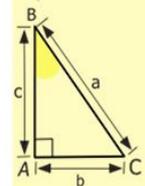
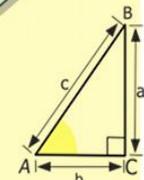
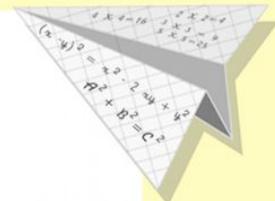
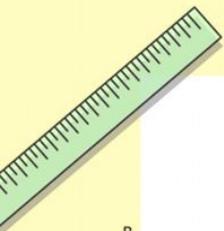
$$\begin{array}{r} 2500 \\ \times 42 \\ \hline 2100 \\ + 840 \\ \hline 105000 \end{array}$$

- 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



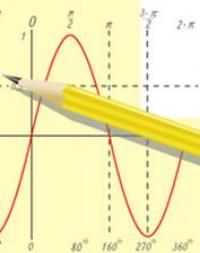
ИСПОЛЬЗУЕМЫЕ МАТЕРИАЛЫ:

1. Дмитриева О.И. «Поурочные разработки по математике. 4 класс», Москва «ВАКО», 2016.
2. Самсонова Л.Ю. «Устный счёт. Сборник упражнений к учебнику М.И. Моро, С.И. Волковой, С.В. Степановой» Москва «Экзамен», 2009.
3. М.И. Моро Математика 3 класс, Часть 2. Учебник, Издательство «Просвещение», 2009 год.
4. Фон для презентации - <http://www.pomochnik-vsem.ru>



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

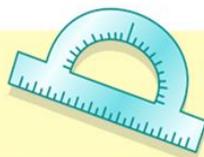
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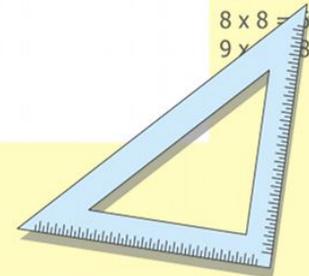
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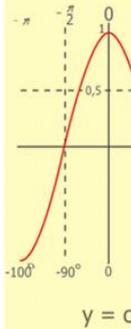
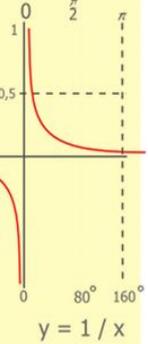
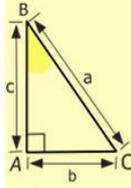
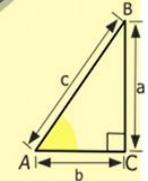
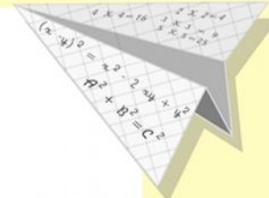
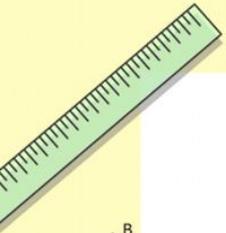
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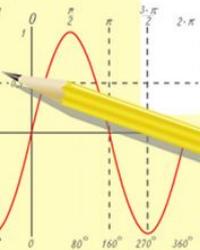


Спасибо за внимание!



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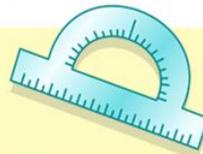
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