

Математик

а

Скорость велосипедиста x км/ч, а скорость пешехода 4 км/ч. С какой скоростью сходятся и расходятся велосипедист и пешеход?

Скорость вертолета 200 км/ч, а скорость самолета y км/ч. Какое расстояние пролетит самолет за 3 часа? На сколько скорость самолета больше скорости вертолета?

Мельникова Ольга Павловна
МБОУ СОШ № 1 г. Ардон

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

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

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

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

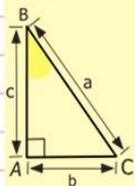
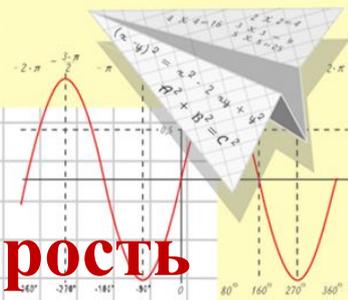
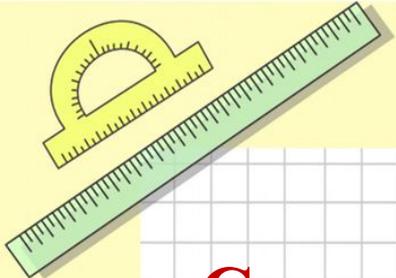
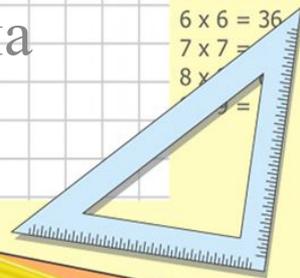
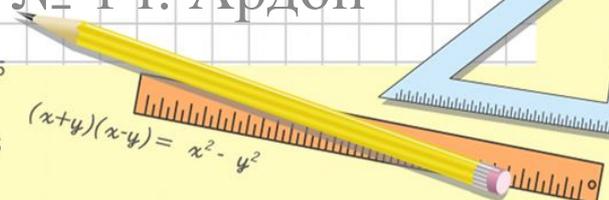
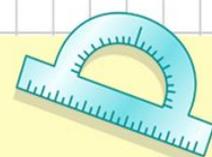
$$\begin{cases} y = 1 \\ x = 25 + 45 \\ x = 70 \end{cases}$$

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

$$y = \cos x$$

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

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

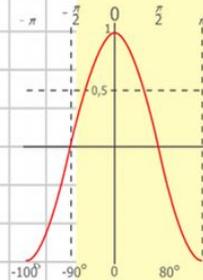
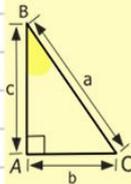
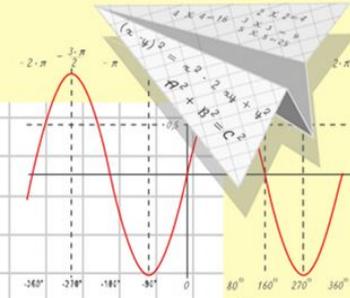
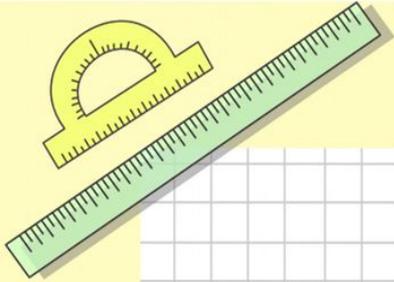


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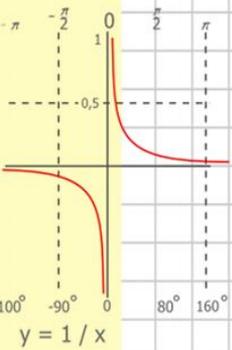
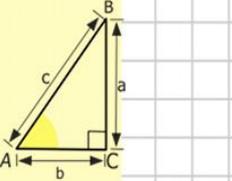
Язык

геометрических рисунков



y = cos x

- 2 x 2 = 4
- 3 x 3 = 9
- 4 x 4 = 16
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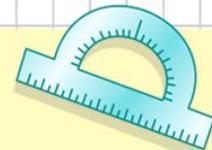


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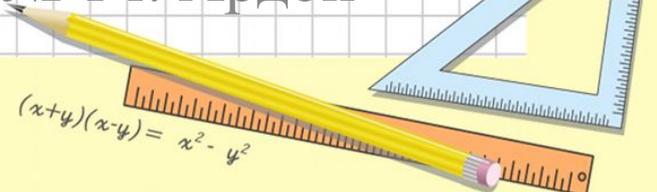


$$\sin 90^\circ = 1$$



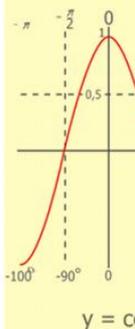
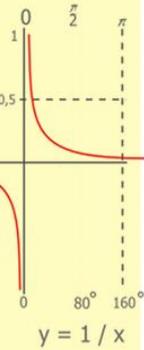
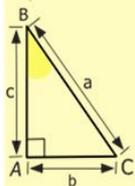
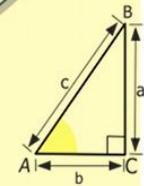
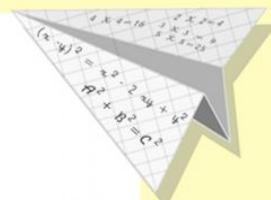
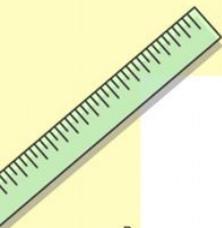
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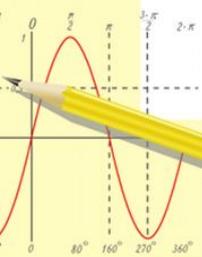
Цель урока:

- познакомиться с геометрическими фигурами, научиться распознавать на чертежах эти фигуры



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

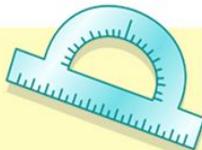
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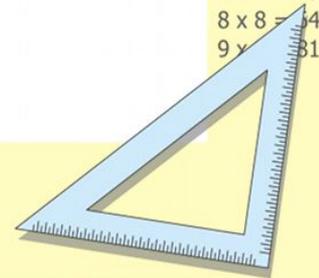
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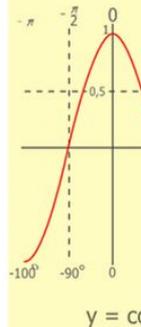
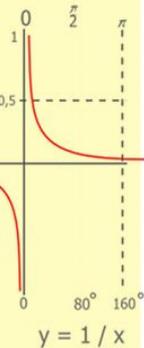
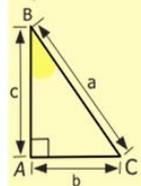
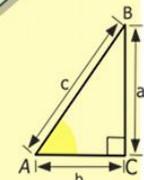
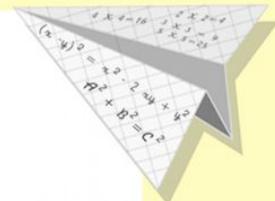
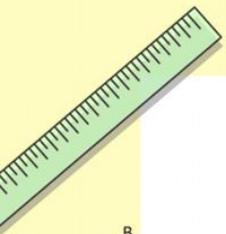
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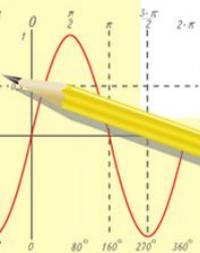


Язык геометрических рисунков - это не только язык чисел, букв и символов, а еще и язык наглядных рисунков и чертежей.



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

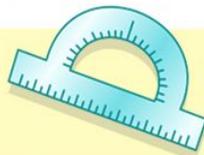
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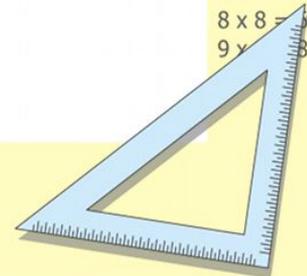
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Вычислите и заполните таблицу:

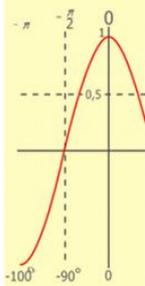
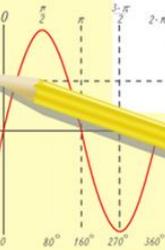
М	$12 + 8$	$=20$	Т	$17 + 19$	$=36$
Р	$17 - 5$	$=12$	И	$25 - 18$	$=7$
О	$14 + 15$	$=29$	Г	$16 + 6$	$=22$
Я	$28 - 12$	$=16$	Е	$31 - 7$	$=24$

22	24	29	20	24	36	12	7	16

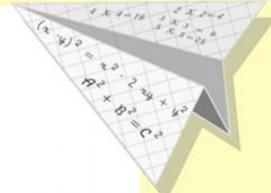
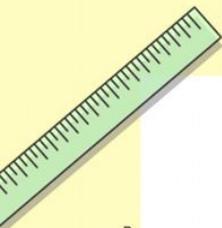
Раздел математики, посвященный изучению свойств фигур



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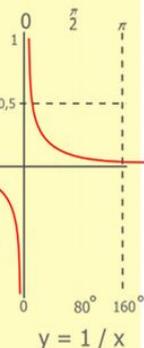
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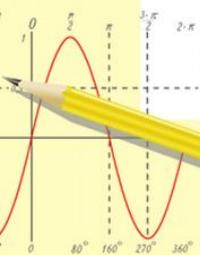
Термин **«геометрия»**
древнегреческого происхождения.

В буквальном переводе слово
«геометрия» означает «измерение
земли»:

ge – земля, **metreo** – мерить,
измерять.



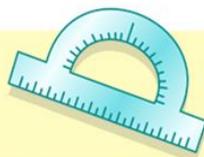
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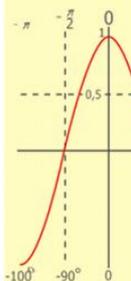
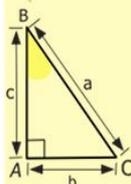


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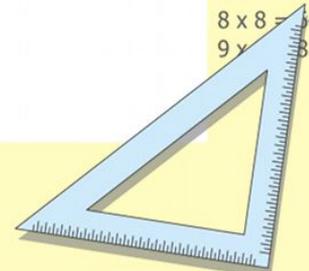
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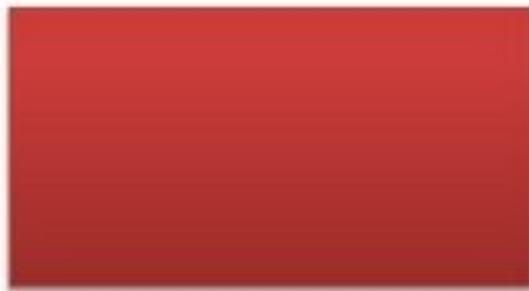
Каждая геометрическая фигура имеет своё имя.



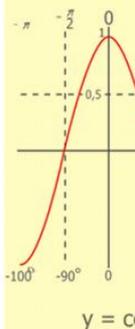
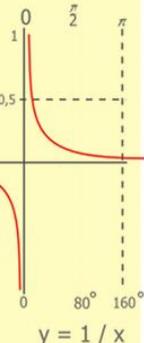
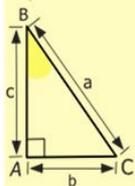
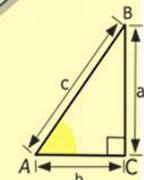
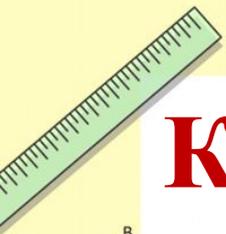
треугольник



круг

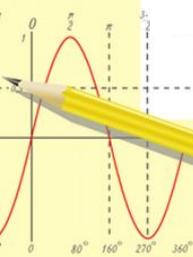


прямоугольник



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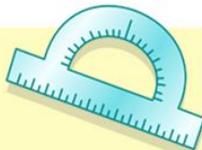
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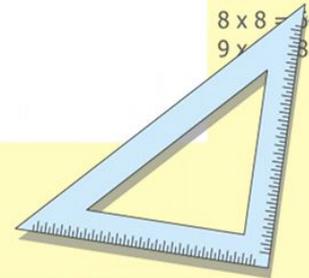
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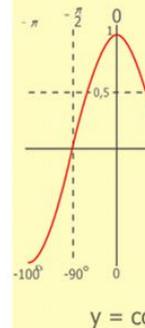
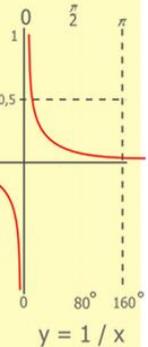
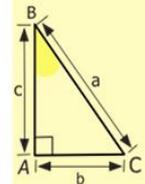
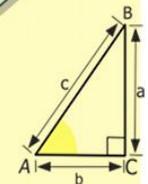
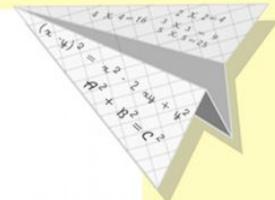
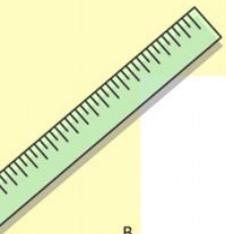
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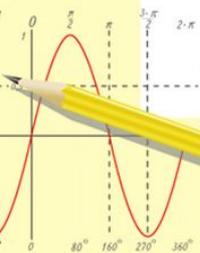
Для того, чтобы отличать
геометрические фигуры
условились давать им имена.

При изображении геометрических
фигур нужно соблюдать
некоторые правила и уметь их
правильно читать.



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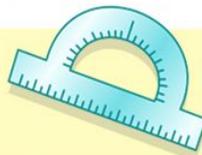
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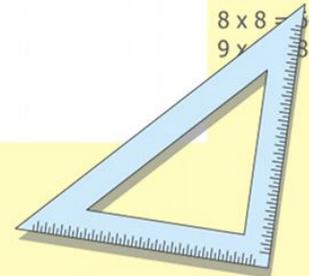
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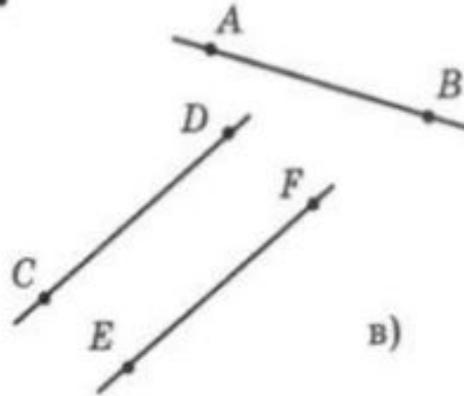


Кроме того, отрезки, прямые и точки стали обозначать латинскими буквами.

Давайте внимательно рассмотрим рисунок и назовем именами геометрические фигуры, которые на нем изображены.

Точки
P, M, K

а)



б)

прямые
AB, CD, EF

отрезки
AB, CD, MN

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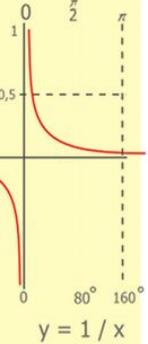
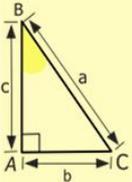
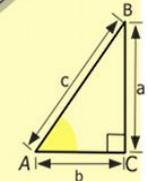
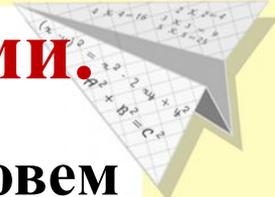
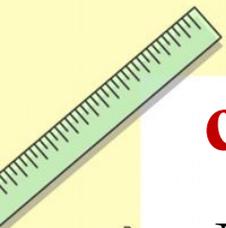
$$\sin 90^\circ = 1$$

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

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

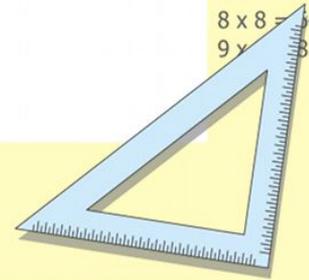
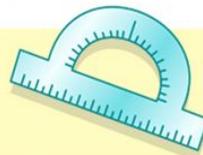
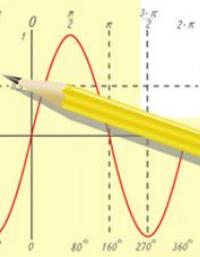
$$x = 70$$

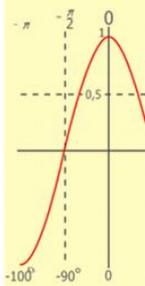
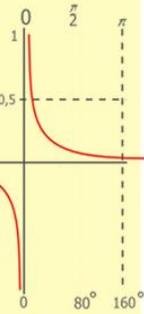
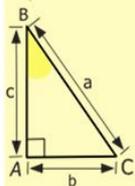
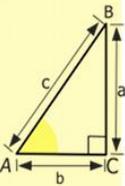
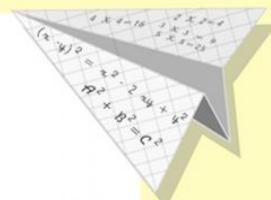
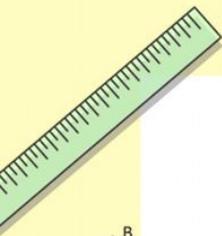
$$(x+y)(x-y) = x^2 - y^2$$



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

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



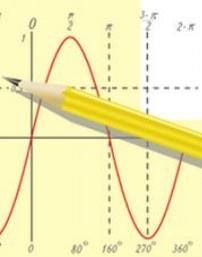


$y = 1 / x$

$y = \cos$

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

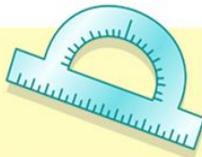
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- $4 \times 4 = 16$
- $5 \times 5 = 25$
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- $7 \times 7 = 49$
- $8 \times 8 = 64$
- $9 \times 9 = 81$



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

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

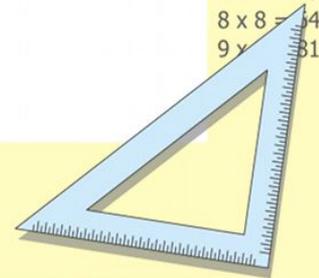
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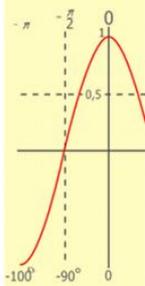
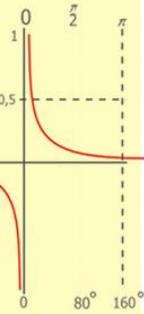
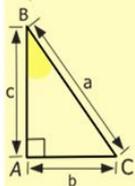
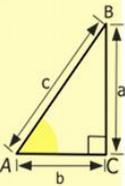
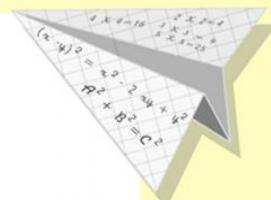
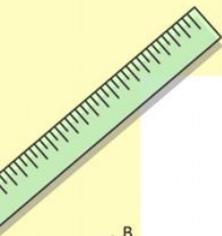


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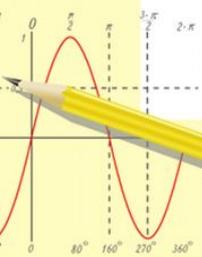


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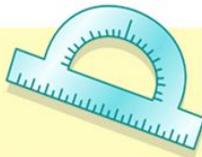
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