

# 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

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

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

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

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

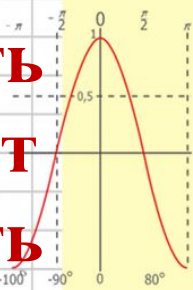
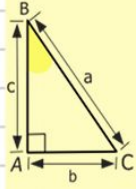
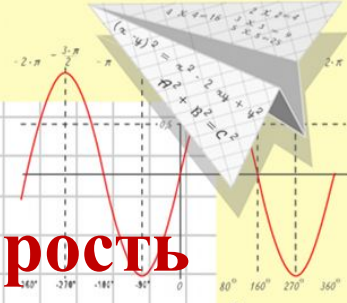
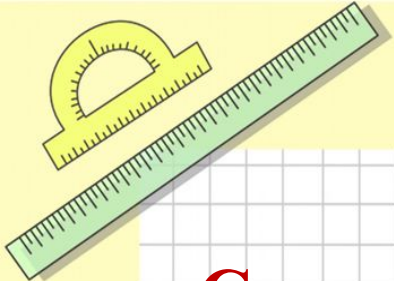
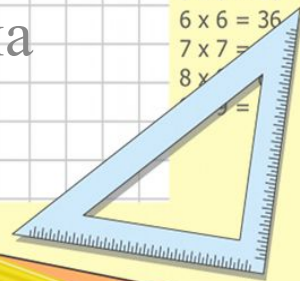
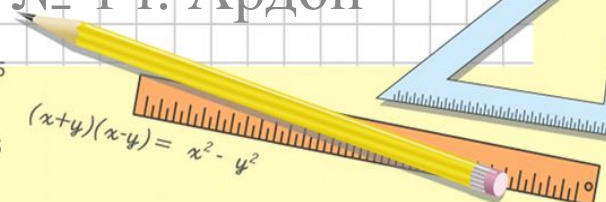
$$\begin{cases} y = 1 \\ x = 25 + 45 \\ x = 70 \end{cases}$$

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

$$y = \cos x$$

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

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

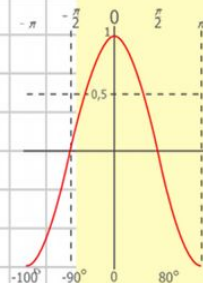
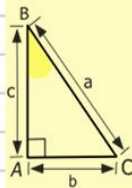
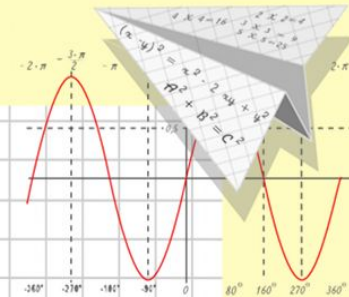
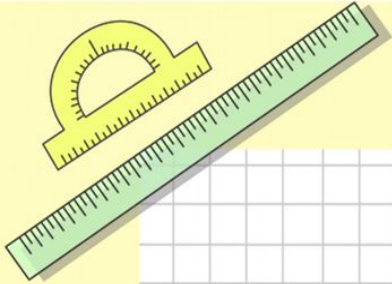


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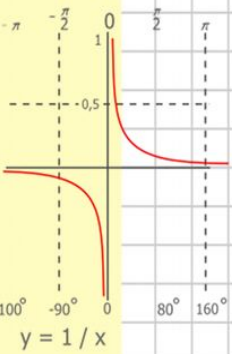
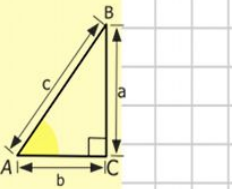
# Язык

# геометрических рисунков



y = cos x

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



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

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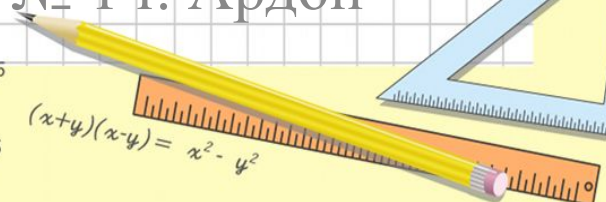
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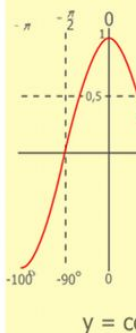
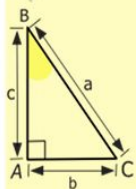
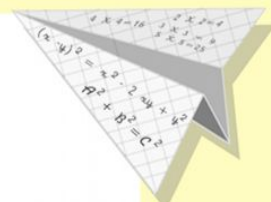
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$$(x+y)(x-y) = x^2 - y^2$$



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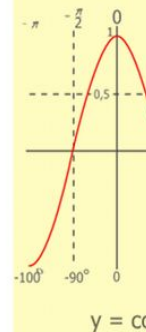
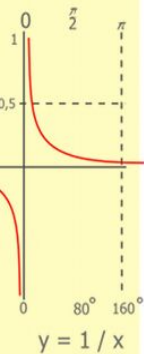
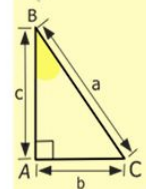
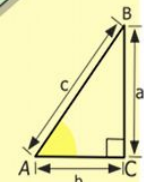
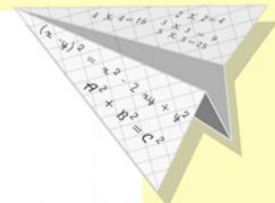
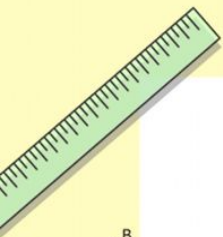
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# Язык геометрических рисунков - это не только язык чисел, букв и символов, а еще и язык наглядных рисунков и чертежей.



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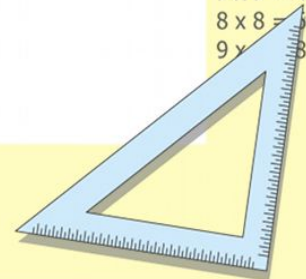
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# Вычислите и заполните таблицу:

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

22	24	29	20	24	36	12	7	16

Раздел математики, посвященный изучению свойств фигур



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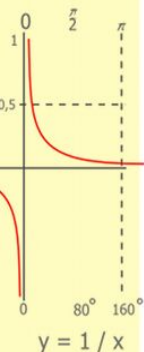
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Термин **«геометрия»**  
древнегреческого происхождения.

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

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



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



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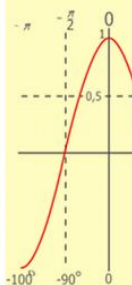
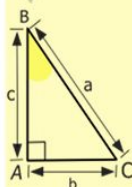


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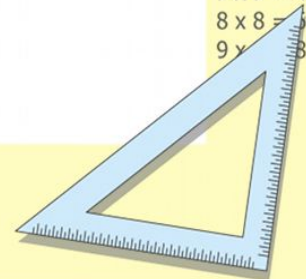
$$x = 70$$

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$$y = \cos$$

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# Каждая геометрическая фигура имеет своё имя.



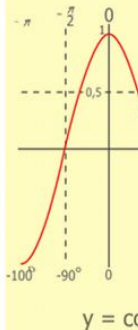
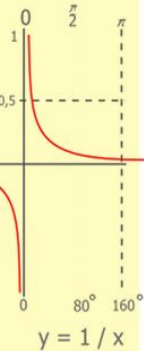
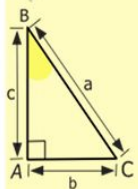
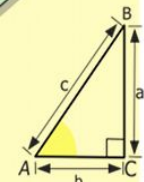
*треугольник*



*круг*



*прямоугольник*



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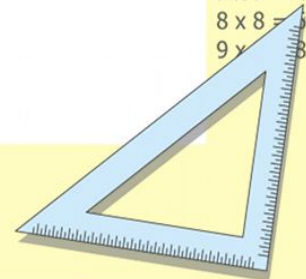
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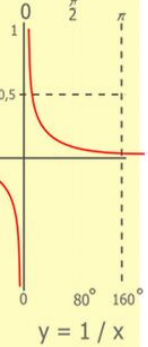
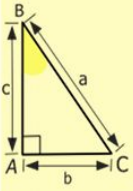
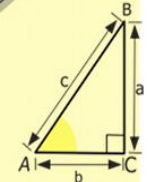
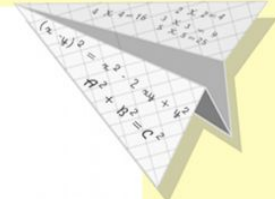
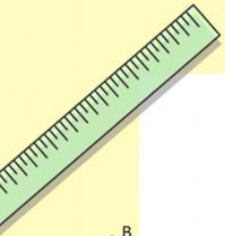
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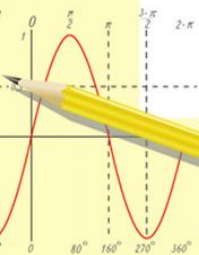
Для того, чтобы отличать  
геометрические фигуры  
условились давать им имена.

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



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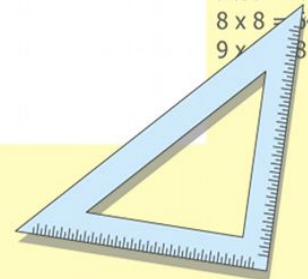
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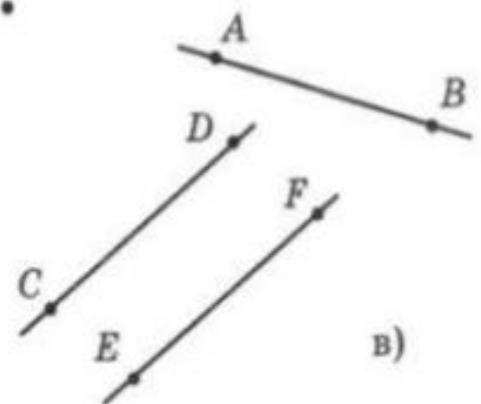


# Кроме того, отрезки, прямые и точки стали обозначать латинскими буквами.

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

Точки  
P, M, K

а)



б)

**точки**  
**P, M, K**

**прямые**  
**AB, CD, EF**

**отрезки**  
**AB, CD, MN**

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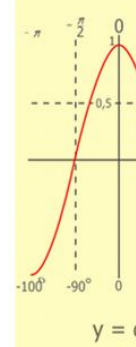
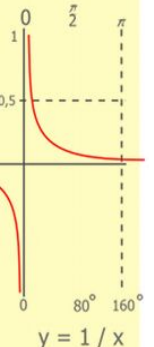
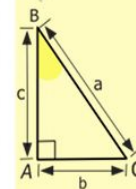
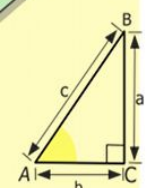
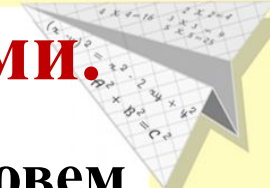
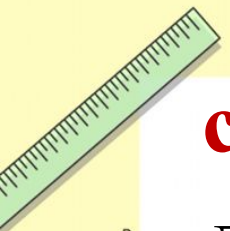
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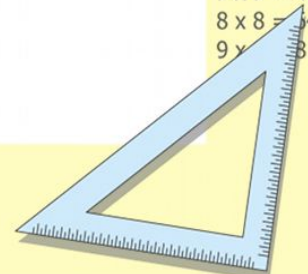
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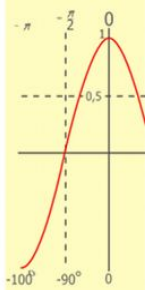
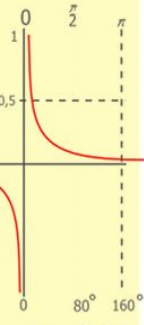
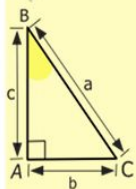
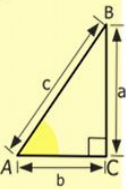
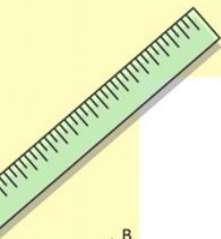
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$y = 1 / x$

$y = \cos$

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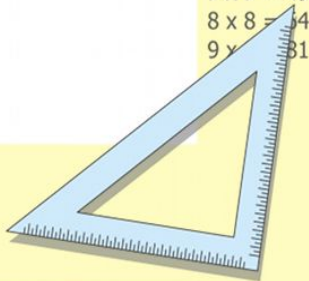
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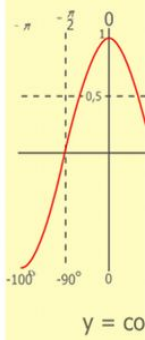
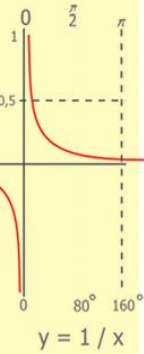
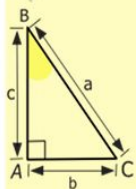
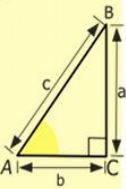
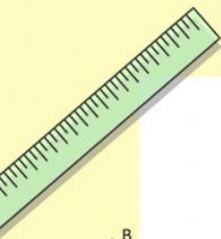


$$\begin{cases} y = \sin 90 \\ x = 25y + 45 \end{cases}$$

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

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





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

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



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

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



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

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

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

