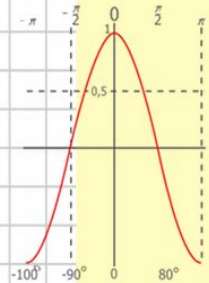
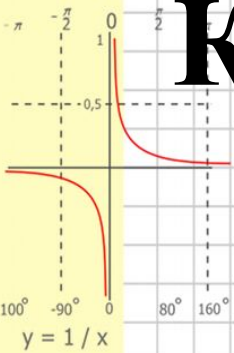
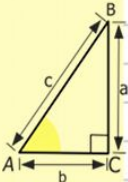
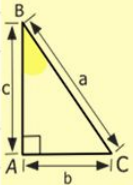
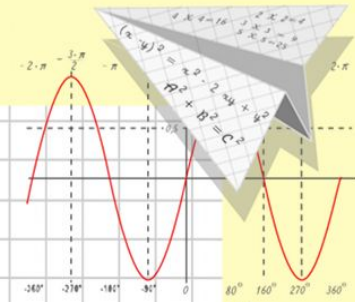
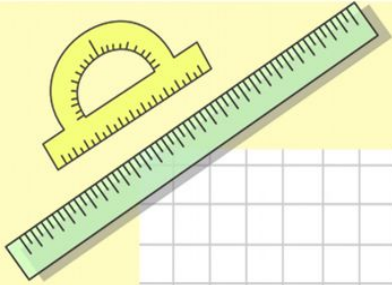


# Математика



## Классная работа.

## 29.04

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

$$y = \cos x$$

- 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



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

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



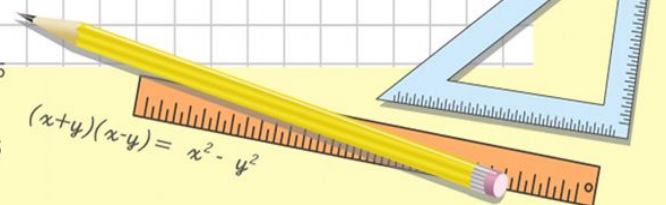
$$\sin 90^\circ = 1$$



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

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

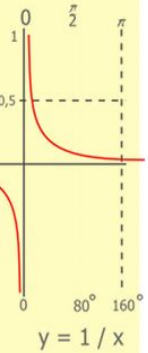
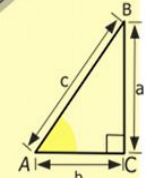
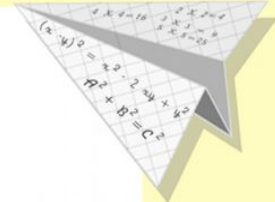
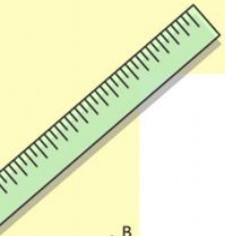
$$x = 70$$



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

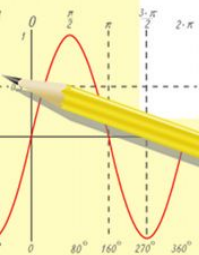
# Тема урока:

# Письменное умножение трёхзначного числа на однозначное



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

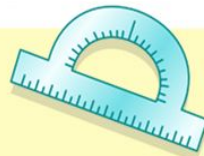
- $2 \times 2 = 4$
- $3 \times 3 = 9$
- $4 \times 4 = 16$
- $5 \times 5 = 25$
- $6 \times 6 = 36$
- $7 \times 7 = 49$
- $8 \times 8 = 64$
- $9 \times 9 = 81$



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

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

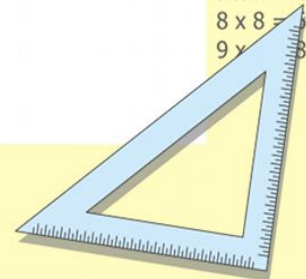
$$\sin 90^\circ = 1$$



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

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

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



# 1 вопрос

Как расположить числа 310, 31, 103, 301, 333, 111, 13 в порядке возрастания:

А) 13, 31, 103, 111, 310, 301, 333.

Б) 13, 31, 103, 111, 301, 310, 333.

В) 31, 13, 103, 111, 301, 310, 333.

# 2 вопрос

Какое из предложений соответствует выражению  $180+160:2$ .

А) Сумму 180 и 160 уменьшили на 2.

Б) К 180 прибавили частное 160 и 2.

В) Сумму 180 и 160 уменьшили в 2 раза.

$$\begin{array}{r} 1 \\ 2500 \\ \times 42 \\ \hline 2100 \\ + 8400 \\ \hline 105000 \end{array}$$



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

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

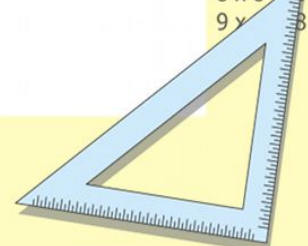
$$\sin 90^\circ = 1$$



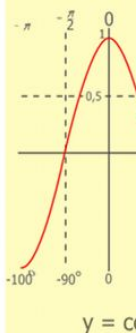
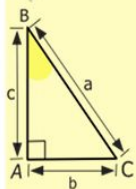
$$\begin{cases} y = \sin 90 \\ x = 25y + 45 \end{cases}$$

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

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



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



### 3 вопрос

Число 679 сначала уменьшили на 70, а затем к полученному числу прибавили один.

Найдите верный ответ.

А) 610

Б) 673

В) 61

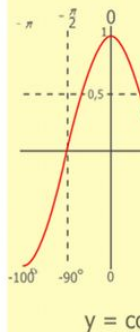
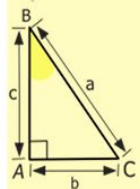
### 4 вопрос

Чему равна половина от 400?

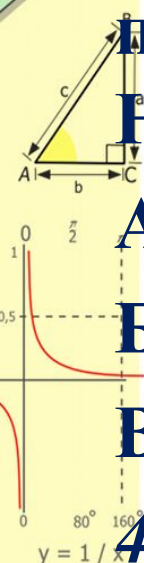
А) 200

Б) 20

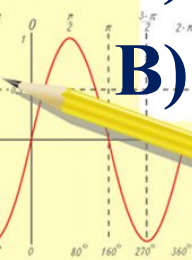
В) 300



- 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



$$\begin{array}{r} 1 \\ \times 2500 \\ \hline 2500 \\ \times 42 \\ \hline 2100 \\ + 8400 \\ \hline 105000 \end{array}$$



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

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

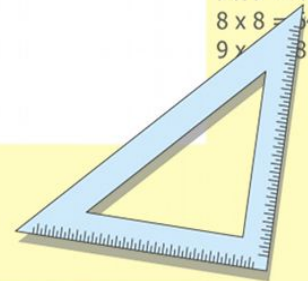
$$\sin 90^\circ = 1$$



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

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

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



## 5 вопрос

Укажи выражение, в котором последним будет выполняться действие вычитания.

A)  $23 \cdot 3 - 8 + 42 : 3$

B)  $(90 - 34) \cdot 8 - 27$

B)  $(28 + 45 - 35) : 2 \cdot 40$

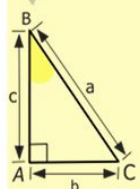
## 6 вопрос

В какой строке записано уравнение?

A)  $170 - 70 = 100$

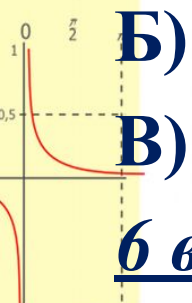
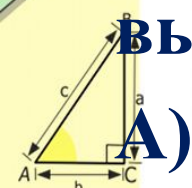
B)  $a : 14 = 128 - 100$

B)  $c < 12 \cdot 100$

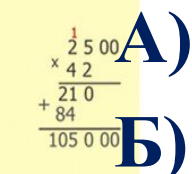


$y = \cos$

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



$y = 1/x$



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

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

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

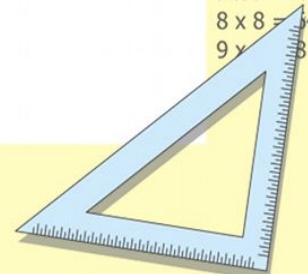


$$\begin{cases} y = \sin 90 \\ x = 25y + 45 \end{cases}$$

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

$$x = 70$$

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



## 7 вопрос

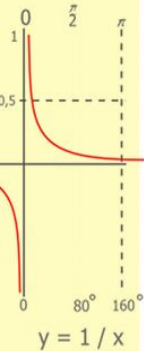
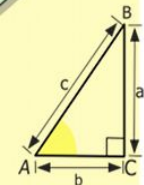
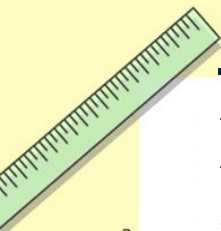
В каком из уравнений правильно назван неизвестный компонент?

- А)  $32 : b = 8$  (частное)  
Б)  $9 \cdot d = 45$  (множитель)  
В)  $a : b = 12$  (делитель)

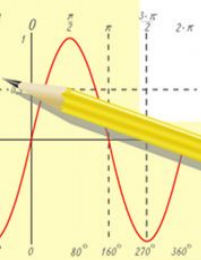
## 8 вопрос

В каком из уравнений неизвестное число не равно 0?

- А)  $45 \cdot a = 45$   
Б)  $b : 19 = 0$   
В)  $c + 18 = 18$



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



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

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

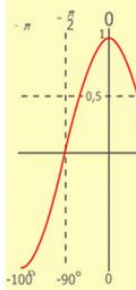
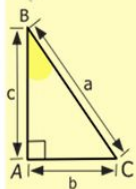
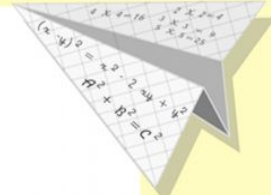
$$\sin 90^\circ = 1$$



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

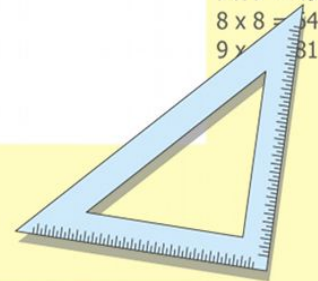
$$\begin{cases} y = 1 \\ x = 25 + 45 \\ \hline x = 70 \end{cases}$$

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



$$y = \cos$$

- 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



## 9 вопрос

Какую формулу мы будем использовать при решении задачи? Площадь прямоугольника равна  $24 \text{ см}^2$ . Чему равна длина этого прямоугольника, если ширина 4 см.

- A)  $S = a \cdot x \cdot b$       Б)  $a = S : b$       В)  $a = S - b$

## 10 вопрос

Выбери выражение, с помощью которого можно будет решить задачу. В одной группе 7 туристов, а в другой в 3 раза больше. Сколько туристов в двух группах?

- A)  $7 \cdot 3$       Б)  $7 + 7 + 3$       В)  $7 + (7 \cdot 3)$

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

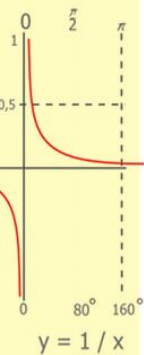
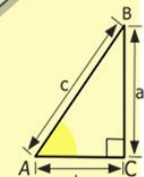
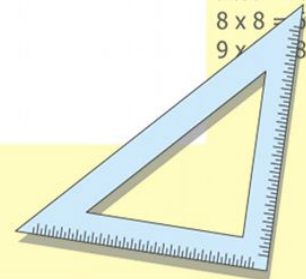
$$\frac{a}{c} + \frac{b}{c} = \frac{a+b}{c}$$

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

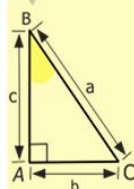
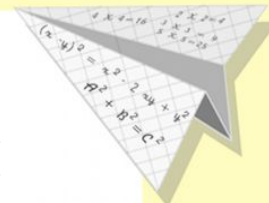
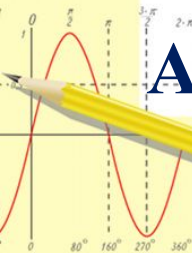


$$\begin{cases} y = \sin 90^\circ \\ x = 25y + 45 \\ y = 1 \\ x = 25 + 45 \\ \hline x = 70 \end{cases}$$

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

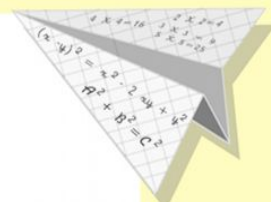
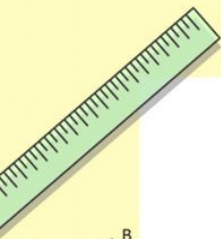


$$\begin{array}{r} 1 \\ \times 42 \\ \hline 210 \\ + 84 \\ \hline 10500 \end{array}$$



$$y = \cos$$

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



$$25 \cdot 3$$

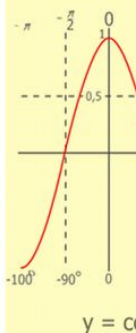
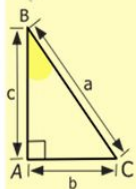
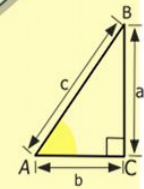
$$132 \cdot 5$$

$$5 \cdot 71$$

$$228 \cdot 4$$

$$148 \cdot 6$$

$$6 \cdot 24$$



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

- 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



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

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

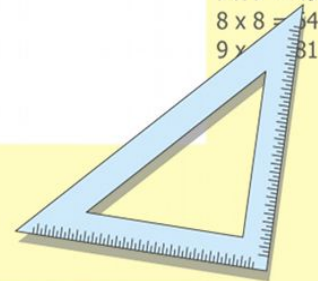
$$\sin 90^\circ = 1$$



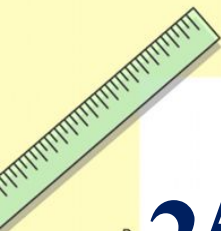
$$\begin{cases} y = \sin 90 \\ x = 25y + 45 \end{cases}$$

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

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







$$25 \times 3 = 75$$

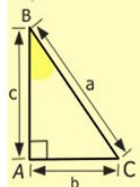
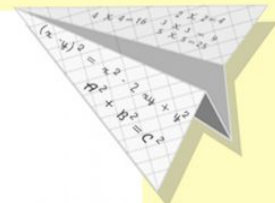
$$5 \times 71 = 355$$

$$6 \times 24 = 144$$

$$132 \times 5 = ?$$

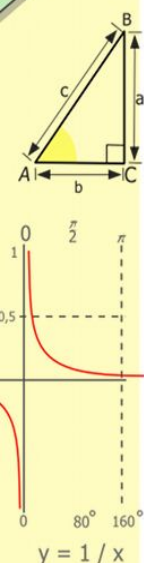
$$228 \times 4 = ?$$

$$148 \times 6 = ?$$



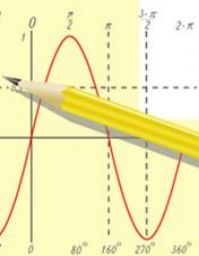
y = cos

- 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



y = 1 / x

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



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

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

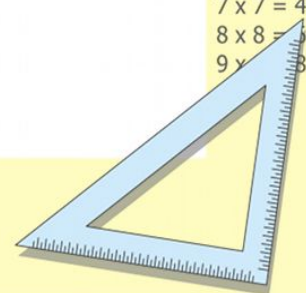
$$\sin 90^\circ = 1$$



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

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

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



# Письменный способ:

«умножение столбиком»

Рассуждай так:



2 1

сот. дес. ед.

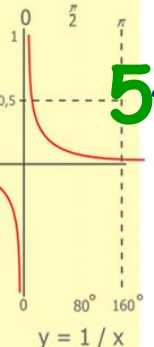
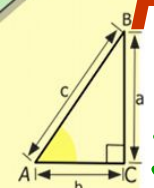
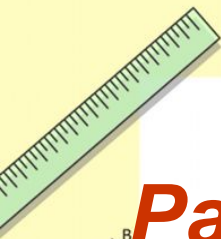
1. Записываю  
3. Умножаю десятки  
4. Умножаю единицы.  
выражение в столбик.

5. Читаю ответ, но  
ещё прибавляю  
всё без последней  
цифры дес. -

852

	1	4	2
x			6
	8	5	2

заполняю 5  
под сотнями, под  
надписываю  
десятками,  
десятками 1  
запоминаю,  
надписываю  
сотнями 2.



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



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

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

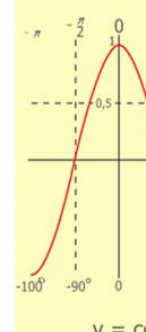
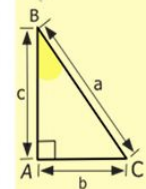
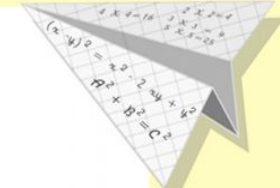
$\sin 90^\circ = 1$



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

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

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



- 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



# Работа с учебником

## с. 88 Объяснение в учебнике

Если устно выполнить умножение трудно, то его выполняют, используя письменные приёмы.

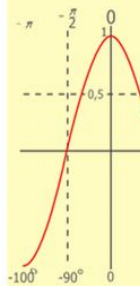
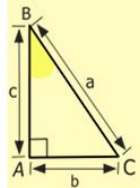
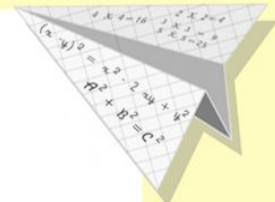
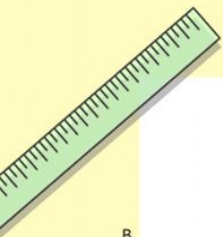
Объясни вычисления:

$$34 \cdot 2 = (30 + 4) \cdot 2 = 30 \cdot 2 + 4 \cdot 2 = 60 + 8 = 68$$

$$234 \cdot 2 = (200 + 30 + 4) \cdot 2 = 200 \cdot 2 + 30 \cdot 2 + 4 \cdot 2 = 400 + 60 + 8 = 468$$

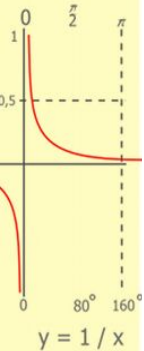
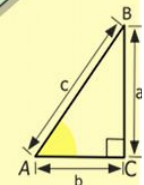
Удобно записать решение столбиком, используя знак  $x$ , и умножать сначала единицы, потом десятки, а затем сотни.

$$\begin{array}{r} x \ 2 \ 3 \ 4 \\ \hline 4 \ 6 \ 8 \end{array}$$



$y = \cos$

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



$y = 1/x$

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



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

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

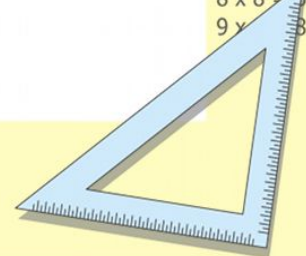
$$\sin 90^\circ = 1$$



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

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

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



# Работа с учебником

с. 88 №1

1.  $123 \cdot 3$  Записываю первый множитель.

2. Записываем второй множитель под единицами первого множителя.

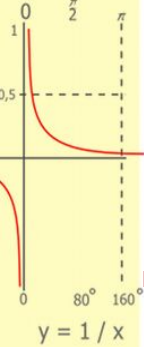
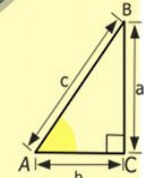
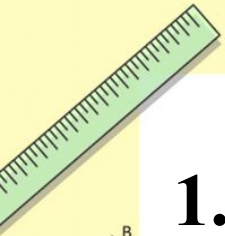
3. Умножаю единицы:  $3 \cdot 3 = 9$   
9 единиц пишу под единицами.

4. Умножаю десятки:  
 $2 \text{ дес.} \cdot 3 = 6 \text{ дес.}$   
6 десятков пишу под десятками.

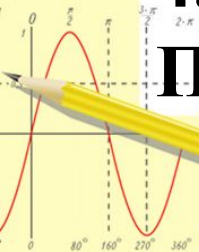
4. Умножаю сотни:  $1 \text{ сот.} \cdot 3 = 3 \text{ сот.}$   
Пишу под сотнями.

5. Читаю ответ: 369

	1	2	3
x			3
<hr/>			
	3	6	9



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



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

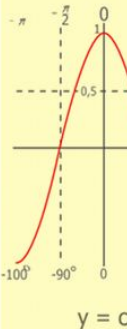
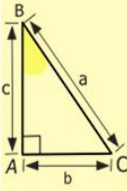
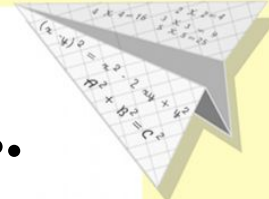
$$\frac{a}{c} + \frac{b}{c} = \frac{a+b}{c}$$

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



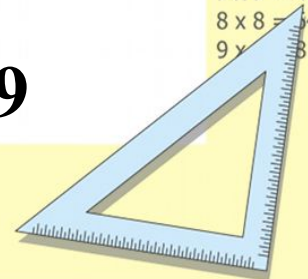
$$\begin{cases} y = 25x + 45 \\ x = 25 + 45 \\ x = 70 \end{cases}$$

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



$$y = \cos$$

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



# Работа с учебником

с. 88 №3

Расход на 1 теплицу	Количество теплиц	Всего плёнки
16 м	4 т.	? м
25 м	4	? м

**20 · 5 м**

т.

1)  $20 \cdot 5 = 100$  (м) плёнки всего.

2)  $16 \cdot 4 = 64$  (м) плёнки понадобится

$64 \text{ м} < 100 \text{ м}$

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

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

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

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

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

$$x = 70$$

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

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

# Работа с учебником

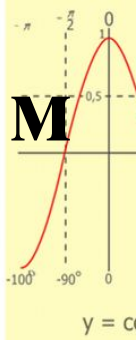
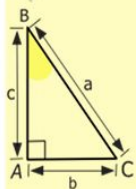
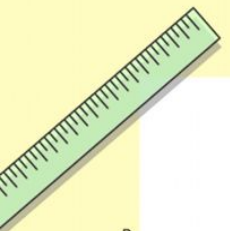
с. 88 №3

Расход на 1 теплицу	Количество теплиц	Всего плёнки
16 м	4 т.	? м
25 м	4 т.	? м

**20 · 5 м**

**25 · 4 = 100(м) плёнки понадобится  
100 м = 100 м**

**Ответ: купленной пленки хватит на все теплицы.**



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

- 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

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

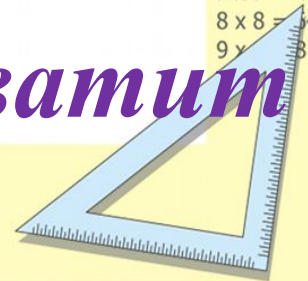
$$\frac{a+b}{c}$$

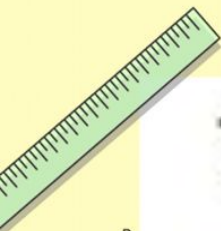
$$\sin 90^\circ = 1$$

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

$$\begin{cases} y = 1 \\ x = 2 \cdot 1 + 45 \\ x = 47 \end{cases}$$

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





$$75 \div 15 - 5 = 0$$

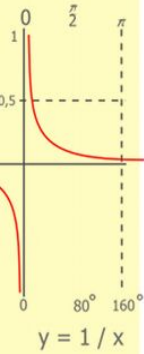
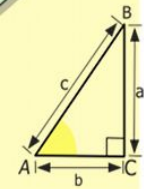
$$48 - 48 \div 6 = 40$$

$$36 \div 6 \div 6 = 1$$

$$72 \div 9 + 2 = 10$$

$$64 + 17 \cdot 2 = 98$$

$$56 - 9 \cdot 6 = 2$$



$y = 1/x$

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



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

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

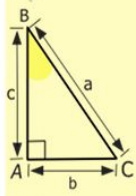
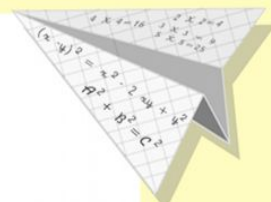
$\sin 90^\circ = 1$



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

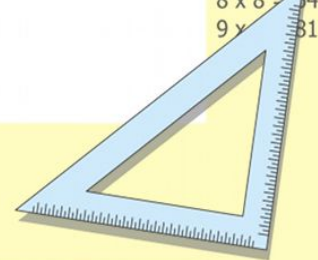
$$\begin{cases} y = 1 \\ x = 25 + 45 \\ \hline x = 70 \end{cases}$$

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



$y = \cos$

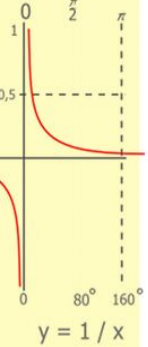
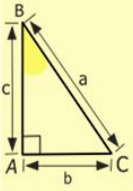
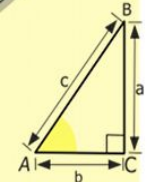
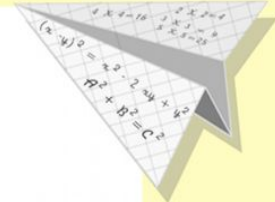
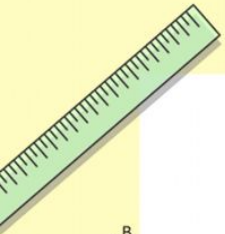
- $2 \times 2 = 4$
- $3 \times 3 = 9$
- $4 \times 4 = 16$
- $5 \times 5 = 25$
- $6 \times 6 = 36$
- $7 \times 7 = 49$
- $8 \times 8 = 64$
- $9 \times 9 = 81$



# Самостоятельная работа

с.88 № 2

(1 столбик – столбиком,  
4 столбик – по действиям)



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

- 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



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

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

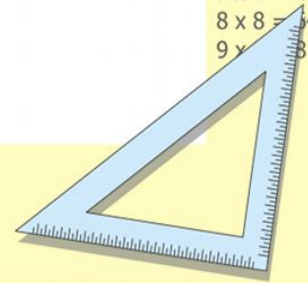
$$\sin 90^\circ = 1$$



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

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

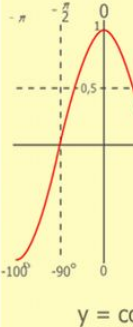
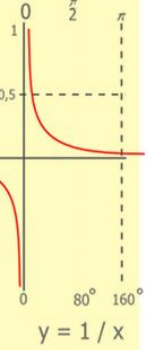
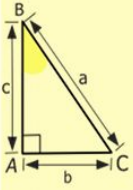
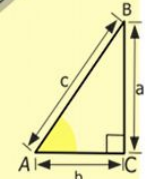
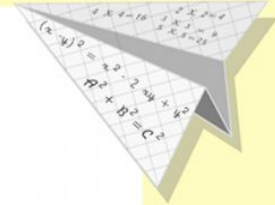
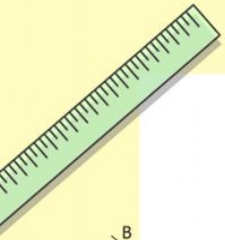
$$(x+y)(x-y) = x^2 - y^2$$





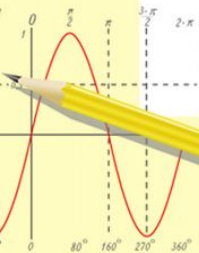
# Домашнее задание

с.100 № 10, с.101 №20



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

- 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



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

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

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



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

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

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

