

The image is a composite of three mathematical diagrams. The top-left diagram shows a sine wave on a grid with x-axis labels $-360^\circ, -270^\circ, -180^\circ, -90^\circ, 0$ and y-axis labels $-2\pi, -\pi, 0, \pi$. The top-right diagram shows a 3D coordinate system with a plane labeled $(x, y, z) \cdot \vec{n} = c$ and $Ax + By + Cz = D$. The bottom-right diagram shows a right triangle with vertices A, B, and C, with sides labeled a, b, and c, and a right angle symbol at vertex C.

$y = \cos x$

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

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

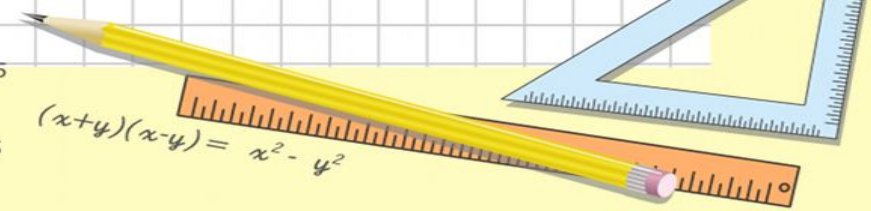
$$\sin 90^\circ = 1$$

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

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

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

The image shows two graphs of trigonometric functions. The left graph is a sine wave, $y = \sin(x)$, plotted on a coordinate system with the x-axis in degrees from -360° to 360° and the y-axis from -1 to 1 . The wave starts at $(0, 0)$, reaches a peak at $(90^\circ, 1)$, crosses the x-axis at $(180^\circ, 0)$, reaches a trough at $(270^\circ, -1)$, and returns to the x-axis at $(360^\circ, 0)$. The right graph is a cosine wave, $y = \cos(x)$, plotted on a similar coordinate system. The wave starts at $(0, 1)$, crosses the x-axis at $(90^\circ, 0)$, reaches a trough at $(180^\circ, -1)$, crosses the x-axis again at $(270^\circ, 0)$, and returns to the peak at $(360^\circ, 1)$. A small inset in the top right corner shows a right triangle with sides labeled a , b , and c , and angles labeled A , B , and C .



Добрий день!

Ми продовжуємо тему повторення. Нагадую, що всі обчислення Ви виконуєте в стовпчик у зошиті, щоб я бачила, що Ви обчислюєте самостійно. Дякую!

№1144

$$\begin{aligned} 1) \quad & 0,11x + 0,08x = 45,6 \\ & x(0,11 + 0,08) = 45,6 \\ & 0,19x = 45,6 \\ & x = 240 \end{aligned}$$

$$\begin{aligned} 3) \quad & x - 0,64x = 2,808 \\ & x(1 - 0,64) = 2,808 \\ & 0,36x = 2,808 \\ & x = 7,8 \end{aligned}$$

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

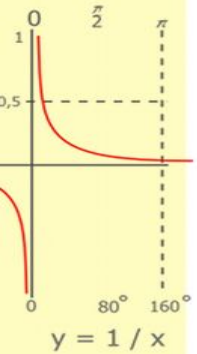
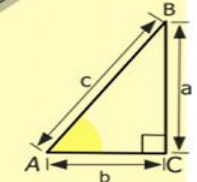
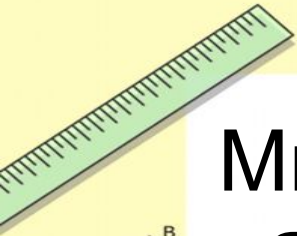
$$\frac{a}{c} + \frac{b}{c} = \frac{a+b}{c}$$

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

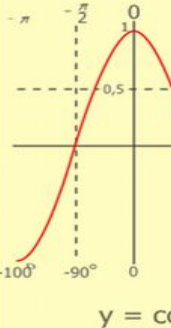
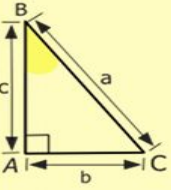
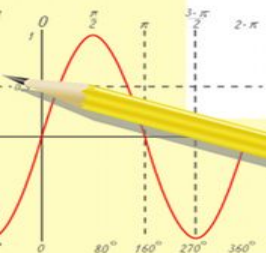
$$\begin{cases} y = \sin 90 \\ x = 25y + 45 \end{cases}$$

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

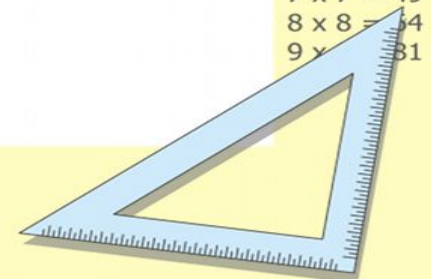
$$(x+y)(x-y) = x^2 - y^2$$



$$\begin{array}{r} 1\ 5\ 00 \\ \times 42 \\ \hline 210 \\ + 840 \\ \hline 105\ 000 \end{array}$$



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



№1144 (продовження)

$$5) 5y + 7y - 0,024 = 0,204$$

$$y(5 + 7) - 0,024 = 0,204$$

$$12y - 0,024 = 0,204$$

$$12y = 0,204 + 0,024$$

$$12y = 0,228$$

$$y = 0,228 : 12$$

$$y = 0,019$$

$$7) 0,8(x - 1,9) = 0,56$$

$$x - 1,9 = 0,56 : 0,8$$

$$x - 1,9 = 0,07$$

$$x = 0,07 + 1,90$$

$$x = 1,97$$

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

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

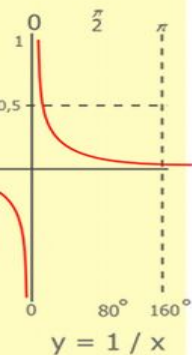
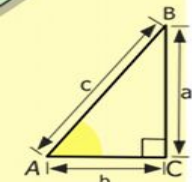
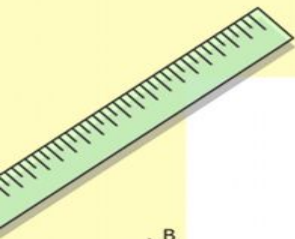
$$\sin 90^\circ = 1$$

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

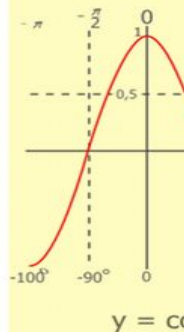
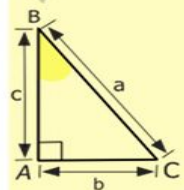
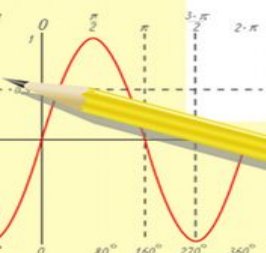
$$\begin{cases} y = 1 \\ x = 25 + 45 \end{cases}$$

$$x = 70$$

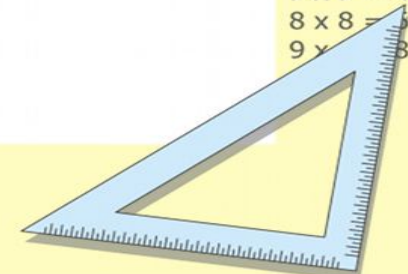
$$(x+y)(x-y) = x^2 - y^2$$



$$\begin{array}{r} 1 \ 5 \ 00 \\ \times 4 \ 2 \\ \hline 21 \ 0 \\ + 84 \\ \hline 105 \ 0 \ 00 \end{array}$$



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



№1144 (продовження)

$$9) 1,7 (5x - 0,16) = 0,238$$

$$5x - 0,16 = 0,238 : 1,7$$

$$5x - 0,16 = 0,14$$

$$5x = 0,14 + 0,16$$

$$5x = 0,30$$

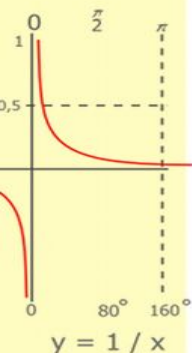
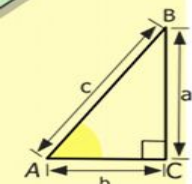
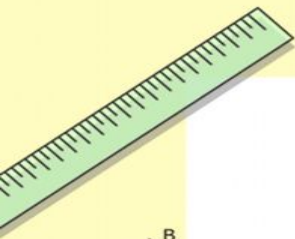
$$x = 0,30 : 5$$

$$x = 0,06$$

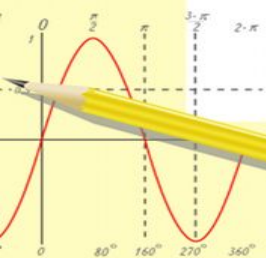
$$11) x : 1,15 = 0,16$$

$$x = 0,16 \cdot 1,15$$

$$x = 0,184$$



$$\begin{array}{r} 1 \ 5 \ 00 \\ \times 4 \ 2 \\ \hline 21 \ 0 \\ + 84 \\ \hline 105 \ 0 \ 00 \end{array}$$



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

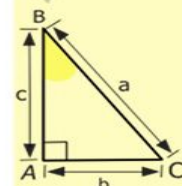
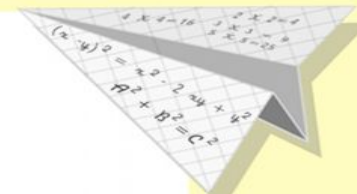


$$\begin{cases} y = \sin 90 \\ x = 25y + 45 \end{cases}$$

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

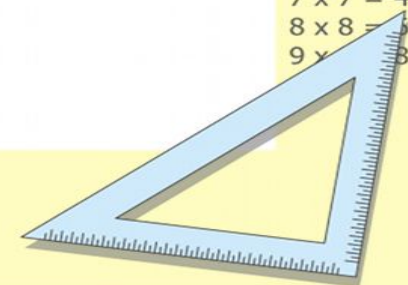
$$x = 70$$

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



$$y = \cos$$

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№1144 (продовження)

$$13) (x + 9,14) : 7,2 = 5$$

$$x + 9,14 = 5 \cdot 7,2$$

$$x + 9,14 = 36$$

$$x = 36 - 9,14$$

$$x = 26,86$$

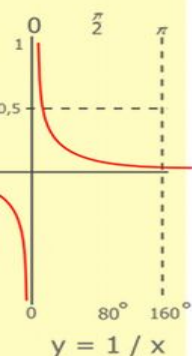
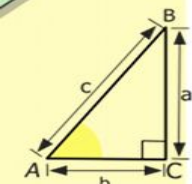
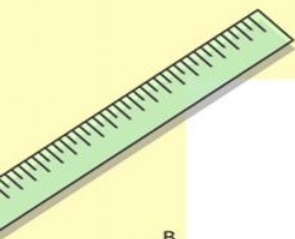
$$15) 5,6 : (x + 1,6) = 0,08$$

$$x + 1,6 = 5,6 : 0,08$$

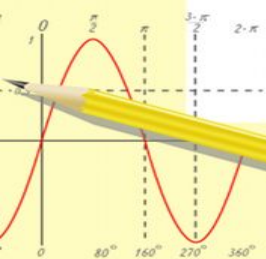
$$x + 1,6 = 70$$

$$x = 70 - 1,6$$

$$x = 68,4$$



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



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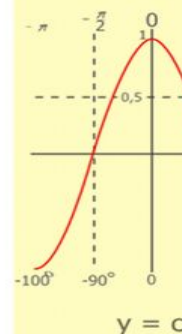
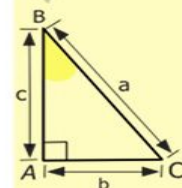
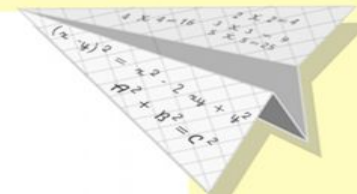


$$\begin{cases} y = \sin 90 \\ x = 25y + 45 \end{cases}$$

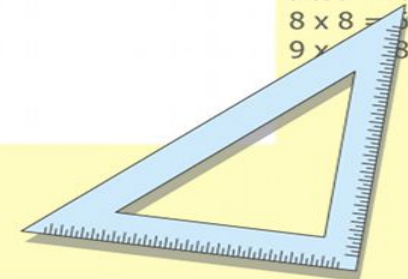
$$\begin{cases} y = 1 \\ x = 25 + 45 \end{cases}$$

$$x = 70$$

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



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№1144 (продовження)

$$17) 4,13 - 1,7x = 4,028$$

$$1,7x = 4,13 - 4,028$$

$$1,7x = 0,102$$

$$x = 0,102 : 1,7$$

$$x = 0,06$$

$$18) 64 : (2,4y + 19,04) = 3,2$$

$$2,4y + 19,04 = 64 : 3,2$$

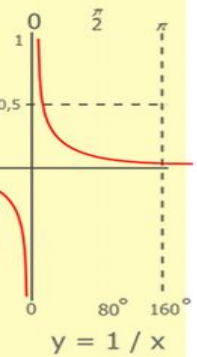
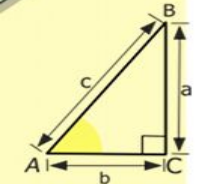
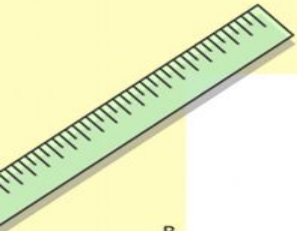
$$2,4y + 19,04 = 20$$

$$2,4y = 20 - 19,04$$

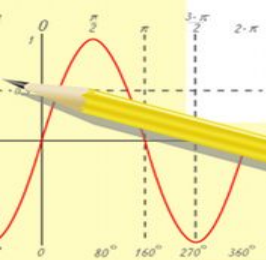
$$2,4y = 0,96$$

$$y = 0,96 : 2,4$$

$$y = 0,4$$



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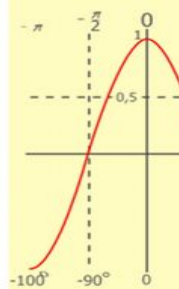
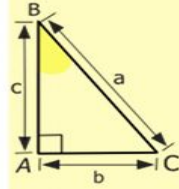


$$\begin{cases} y = \sin 90 \\ x = 25y + 45 \end{cases}$$

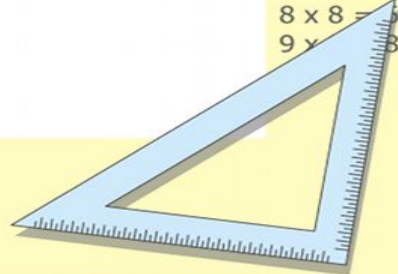
$$\begin{cases} y = 1 \\ x = 25 + 45 \end{cases}$$

$$x = 70$$

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

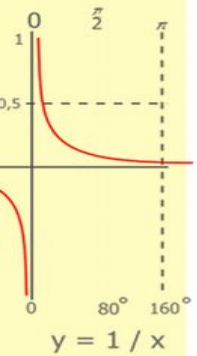
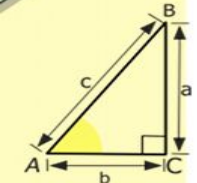
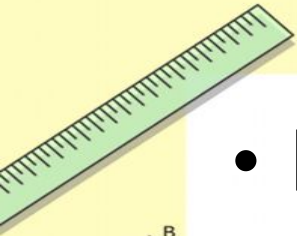


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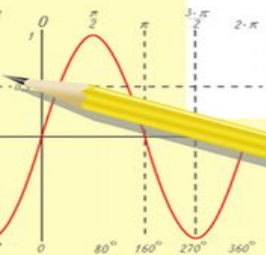


Домашнє завдання :

- Виконати № 1144 (2,4,6,8,10,12,14,16)



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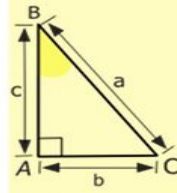
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