№1 ①

$$7 \cdot \begin{bmatrix} 5 & 10 \\ 7 & 12 \\ 11{,}3 & 5 \\ 25 & 30 \end{bmatrix} + 2 \cdot \begin{bmatrix} 5 & 10 \\ 7 & 12 \\ 11{,}3 & 5 \\ 25 & 30 \end{bmatrix} =$$

$$= \begin{bmatrix} 35 & 70 \\ 49 & 84 \\ 79{,}1 & 35 \\ 175 & 210 \end{bmatrix} + \begin{bmatrix} 10 & 20 \\ 14 & 24 \\ 22{,}6 & 10 \\ 50 & 60 \end{bmatrix} = \begin{bmatrix} 45 & 90 \\ 63 & 108 \\ 101{,}7 & 45 \\ 225 & 270 \end{bmatrix}$$

№2

$$\begin{cases} x^2 + yx - 9 = 0 \\ x - y/5 = 0 \end{cases}$$

$x = \frac{y}{5}$

$y = 5x$

$x^2 + 5x^2 - 9 = 0$

$6x^2 - 9 = 0$

$6x^2 = 9$

$x^2 = \frac{3}{2}$

$x = \sqrt{\frac{3}{2}} = 1{,}2247$

$y = \frac{5\sqrt{3}}{\sqrt{2}} = 6{,}1237$

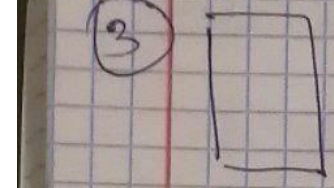
$\left(\sqrt{\frac{3}{2}}\right)^2 + \frac{\sqrt{3} \cdot 5\sqrt{3}}{\sqrt{2} \cdot \sqrt{2}} - 9 = 0$

$\frac{3}{2} + \frac{5 \cdot 3}{2} - 9 = 0$

$1{,}5 + 6 \cdot 9{,}184 - 9 = 0$

$\frac{3 + 15}{2} = 9$

$\frac{18}{2} = 9$ ✓

③ 

$S = 48\ м^2$
$P = 28\ м$

$\begin{cases} a \cdot b = 48 \\ a + b = 28 \end{cases}$ $b = 28 - a$

$a(28-a) = 48$

$-a^2 + 28a - 48 = 0$

$D = 28^2 - 4 \cdot (-48)(-1) = 784 - 192 = 592$

$a_1 = \frac{-28 + \sqrt{592}}{-2}$ $a_2 = \frac{-28 - \sqrt{592}}{-2}$

$592 = (\sqrt{2})^2$

$a_1 = 14 - \sqrt{148}$ $a_2 = 14 + \sqrt{148}$

$a_1 = 14 - 12,1655$ $a_2 = 14 + 12,1655$

$a_1 = 1,8345$ $a_2 = 26,1655$

$b_1 = 26,1655$ $b_2 = 1,8345$

Ответ: $\begin{pmatrix} 26,1655 \\ 1,8345 \end{pmatrix}$ стороны прямоуг