

$$1. \begin{bmatrix} 5 & 10 \\ 7 & 12 \\ 11.3 & 5 \\ 25 & 30 \end{bmatrix} + 2 \cdot \begin{bmatrix} 5 & 10 \\ 7 & 12 \\ 11.3 & 5 \\ 25 & 30 \end{bmatrix} = \begin{bmatrix} 35 & 70 \\ 49 & 84 \\ 79.1 & 35 \\ 175 & 210 \end{bmatrix} + \begin{bmatrix} 10 & 20 \\ 14 & 24 \\ 22.6 & 10 \\ 50 & 60 \end{bmatrix} = \begin{bmatrix} 45 & 90 \\ 63 & 108 \\ 101.7 & 45 \\ 225 & 270 \end{bmatrix}$$

$$2. \begin{cases} 3x - 2y + 5z = 7 \\ 7x + 4y - 8z = 3 \\ 5x - 3y - 4z = -12 \end{cases} = \begin{pmatrix} 15x - y - 7z = -2 \\ y = 15x - 7z + 2 \end{pmatrix} = \begin{matrix} x = 1 \\ y = 3 \\ z = 2 \end{matrix}$$

$$\Rightarrow \begin{vmatrix} 3x - 2(15x - 7z + 2) + 5z = 7 \\ -27x + 19z = 11 \end{vmatrix} \Rightarrow \begin{vmatrix} 3x - 30x + 14z - 4 + 5z = 7 \\ -27x + 19z = 11 \end{vmatrix}$$

$$2) \begin{aligned} 5x - 3(15x - 7z + 2) - 4z &= -12 \\ 5x - 45x + 21z - 6 - 4z &= -12 \\ -40x + 17z &= -6 \end{aligned}$$

$$\begin{cases} -27x + 19z = 11 \\ -40x + 17z = -6 \end{cases} \Rightarrow \begin{aligned} 13x + 2z &= 17 \\ z &= \frac{17 - 13x}{2} \end{aligned}$$

$$3) \left(-27x + 19 \left(\frac{17 - 13x}{2} \right) = 11 \right) \times 2 \Rightarrow -54x + 323 - 247x = 22$$

$$-301x = -301$$

$$x = 1$$

$$z = \frac{17 - 13x}{2} = 2$$

$$y = 15 - 14 + 2 = 3$$

Bre ammenue

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$$\begin{cases} x^2 + yx - 9 = 0 \\ x - y/5 = 0 \end{cases} \quad x = y/5 \quad 1) \quad x^2 + 5x^2 - 9 = 0 \quad x = \frac{3}{\sqrt{6}}$$

$$5x = y \quad x^2 = \frac{9}{6}$$

$$1) \quad \frac{y^2}{25} + \frac{y^2}{5} - 9 = 0 \quad y^2 + 5y^2 = 9 \cdot 25 \quad 6y^2 = 225 \quad y^2 = 37.5$$

$$y = 6,12$$

$$x = \frac{3}{\sqrt{6}}$$

$$y = 6,12$$

небо - немереуе
бо - мереуе
бо - немереуе

$$4. \quad S = 48$$

$$P = 28$$

h u d - ?

$$\begin{cases} 2x + 2y = 28 \\ xy = 48 \end{cases}$$

$$\begin{cases} x + y = 14 \\ xy = 48 \end{cases}$$

$$x = 14 - y$$

$$(14 - y) \cdot y = 48$$

$$-y^2 + 14y = 48$$

$$y^2 - 14y + 48 = 0$$

$$D = 196 - 192 = 4$$

$$y_1 = \frac{14 - 2}{2} = 6$$

$$x_1 = 8$$

$$x_2 = 6$$

$$y_2 = \frac{14 + 2}{2} = 8$$

$$D = 8 \text{ м}$$

$$h = 6 \text{ м}$$