Задание 2

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

$$x = y/5$$

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

$$\frac{y^2}{25} + \frac{y^2}{5} = 9$$

$$\frac{y^2 + 5y^2}{25} = 9$$

$$\frac{6y^2}{25} = 9$$

$$y^2 = 9 \cdot 25$$

$$y^2 = \frac{3 \cdot 25}{2}$$

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

$$x_1 = \frac{5 \cdot \sqrt{6}}{2 \cdot 5} = \frac{\sqrt{6}}{2}$$

$$x_2 = -\frac{5 \cdot \sqrt{6}}{2 \cdot 5} = -\frac{\sqrt{6}}{2}$$

Ответ:

$$x_1 = \frac{5}{2}\sqrt{6}$$

$$y_1 = -\sqrt{6}$$

$$x_2 = -\frac{5}{2}\sqrt[2]{6}$$

$$y_2 = -\frac{\sqrt{6}}{2}$$