

4 последовательных натур. чисел, например 4567, $d = 5 - 4 = 1$

$$a_3 \cdot a_4 = a_1 \cdot a_2 + 102$$

$$(a_1 + 2)(a_1 + 3) - a_1(a_1 + 1) = 102$$

$$a_3 = a_1 + d = a_1 + 2$$

$$a_4 = a_1 + 3d = a_1 + 3$$

$$a_2 = a_1 + d = a_1 + 1$$

$$a_1^2 + 3a_1 + 2a_1 + 6 - a_1^2 - a_1 = 102$$

$$4a_1 = 96$$

$$a_1 = 24$$

$$a_3 = 24 + 2 = 26$$

$$a_4 = 24 + 3 = 27$$

$$a_2 = 24 + 1 = 25$$

Ответ: 24, 25, 26, 27

Ответ: (-1, -3)

$$y = -3 \cdot (-1) - 6 = -3$$

$$x = -1$$

$$11x = -11$$

$$\begin{cases} 3x + y = -6 \cdot 2 \\ 5x - 2y = 1 \end{cases} \Rightarrow \begin{cases} 3x + y = -12 \\ 5x - 2y = 1 \end{cases}$$

система уравнений

7. уравнения (3; 2)

Ответ: (-1, -3)

$$y = -6 - 3(-1) = -3$$

$$x = -1$$

$$11x = -11$$

$$5x + 12 + 6x - 1 = 0$$

$$\begin{cases} 5x - 2(-6 - 3x) = 1 \\ y = -6 - 3x \end{cases}$$

6) система уравнений

5) уравнение системы

$$D = \frac{3 \cdot 24 - 4 \cdot 27}{3} = 0$$

$$D = \frac{3 \cdot 24 - 4 \cdot 27}{3} = 0 \Rightarrow 3(x^2 - 6x + 9) = 3(x - 3)^2$$

$$4) \sqrt{36x^3y^3 - 25x^2y^2} = xy^3(36x^2 - 25y^2) = xy^3(6x - 5y)(6x + 5y)$$

$$x \neq 0$$

$$x^2 = 0,81$$

$$x^2 = -2,43$$

$$x \neq 1,1$$

$$x^2 = 1,21$$

$$2x^2 = -2,42$$

$$x^2 = -\frac{1}{16}$$

$$x^2 = \frac{4}{9}$$

$$x^2 = -4$$

$$x = \pm 3$$

$$x^2 = 9$$

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

$$x = \pm 2$$

$$x^2 = 4$$

$$x^2 = 4$$

$$x = \pm 2$$

$$x^2 = 4$$

$$x = \pm 2$$

$$x = 81$$

$$1x - 9 = 0$$

$$x = 9$$

$$x = 16$$

$$x = 4$$

$$x = 4$$

$$x = 4$$