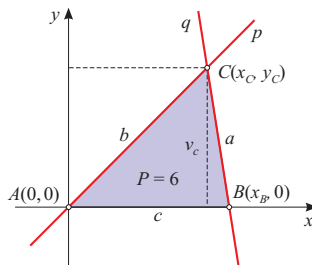


Zadatak 22. Ishodištem koordinatnog sustava položi pravac koji će s pravcem $3x + 2y - 12 = 0$ i osi ordinata tvoriti trokut površine 6.

Rješenje.



$$p \dots 3x + 2y - 12 = 0$$

$$q \dots y = kx \text{ prolazi ishodištem}$$

$$P = 6 = \frac{c \cdot v_a}{2}$$

$c = x_B$, gdje je $B(x_B, 0)$ sjecište pravca p s osi ordinata.

$$3x_B + 2 \cdot 0 - 12 = 0 \implies c = x_B = 4 \implies \boxed{B(4, 0)}$$

$$P = \frac{c \cdot v_C}{2}$$

$$6 = \frac{4 \cdot v_C}{2} \quad / \cdot 2$$

$$v_C = 3$$

v_C je apsolutna vrijednost ordinate točke $C \dots p \cap q \implies C(x_C, \pm 3)$

$$1) \quad y_C = -3$$

$$3x_C + 2 \cdot (-3) - 12 = 0$$

$$3x_C = 18$$

$$x_C = 6$$

$$\boxed{C_1(6, 3)}$$

$$-3 = k \cdot 6$$

$$k = -\frac{1}{2}$$

$$q_1 \dots \boxed{y = -\frac{1}{2}x}$$

$$2) \quad y_C = 3$$

$$3x_C + 2 \cdot 3 - 12 = 0$$

$$3x_C = 6$$

$$x_C = 2$$

$$\boxed{C_2(2, 3)}$$

$$3 = k \cdot 2$$

$$k = \frac{3}{2}$$

$$q_2 \dots \boxed{y = \frac{3}{2}x}$$