Rješenja zadataka 8.2

Zadatak 1. Odredi odsječke danog pravca na koordinatnim osima:

1) $x + 3y + 9 = 0$; **2)** $3x - 2y - 6 = 0$;
3) $4x + 6y + 8 = 0$; **4)** $5x - 3y + 11 = 0$.

Rješenje. **1)**

$$x + 3y + 9 = 0$$
$$x + 3y = -9 \quad / : (-9)$$
$$\frac{x}{-9} + \frac{y}{-3} = 1$$

Odsječak na osi x: $m = -9$

Odsječak na osi y: $n = -3$

2) $3x - 2y - 6 = 0$

$$3x - 2y = 6 \quad / : 6$$
$$\frac{x}{2} + \frac{y}{-3} = 1 \implies \boxed{m = 2, \ n = -3}$$

3) $4x + 6y + 8 = 0$

$$4x + 6y = -8 \quad / : (-8)$$
$$\frac{x}{-2} + \frac{3y}{-4} = 1$$
$$\frac{x}{-2} + \frac{y}{-\frac{4}{3}} = 1 \implies \boxed{m = -2, \ n = -\frac{4}{3}}$$

4) $5x - 3y + 11 = 0$

$$5x - 3y = -11 \quad / : (-11)$$
$$\frac{5x}{-11} + \frac{-3y}{-11} = 1$$
$$\frac{x}{-\frac{11}{5}} + \frac{y}{\frac{11}{3}} = 1 \implies \boxed{m = -\frac{11}{5}, \ n = \frac{11}{3}}$$