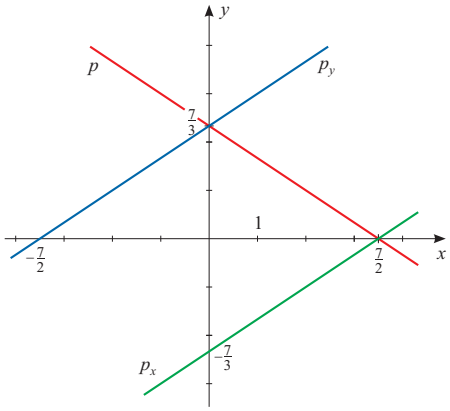
Zadatak 10. Kako glasi jednadžba pravca simetričnog pravcu $2x + 3y - 7 = 0$ s obzirom na

1) os apscisa; **2)** os ordinata?

Rješenje.

$$2x + 3y - 7 = 0$$
$$3y = -2x + 7 \quad / : 3$$
$$y = -\frac{2}{3}x + \frac{7}{3}$$

x	y
0	$\frac{7}{3}$
$\frac{7}{2}$	0



1) p_x prolazi kroz točke $\left(\frac{7}{2}, 0\right)$, $\left(0, -\frac{7}{3}\right)$

$$\Longrightarrow \frac{x}{m} + \frac{y}{n} = 1$$
$$\frac{x}{\frac{7}{2}} + \frac{y}{-\frac{7}{3}} = 1$$
$$\frac{2x}{7} - \frac{3y}{7} = 1 \quad / \cdot 7$$
$$2x - 3y = 7$$
$$\boxed{2x - 3y - 7 = 0}$$

2) p_y prolazi kroz točke $\left(-\frac{7}{2}, 0\right)$, $\left(0, \frac{7}{3}\right)$

$$\Longrightarrow \frac{x}{m} + \frac{y}{n} = 1$$
$$\frac{x}{-\frac{7}{2}} + \frac{y}{\frac{7}{3}} = 1$$
$$-\frac{2x}{7} + \frac{3y}{7} = 1 \quad / \cdot 7$$
$$-2x + 3y = 7$$
$$-2x + 3y - 7 = 0 \quad / \cdot (-1)$$
$$\boxed{2x - 3y + 7 = 0}$$