Zadatak 11. Kako glasi jednadžba pravca koji je simetričan pravcu $x-3y=0$ s obzirom na pravac

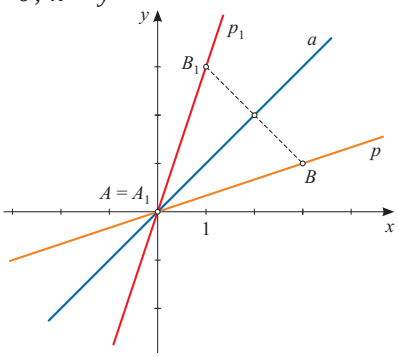
1) $x-y=0$; **2)** $x+y=0$?

Rješenje.

$$x-3y=0$$
$$3y=x \,/:3$$
$$p \quad \ldots \quad y=\frac{1}{3}x$$

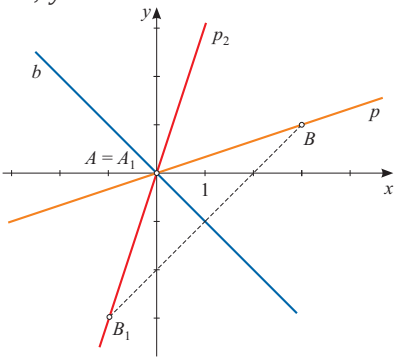
x	y
0	0
3	1

1) $a \quad \ldots \quad x-y=0,\ x=y$



$$\left.\begin{array}{l} A(0,0)\in p \implies A_1(0,0)\in p_1 \\ B(3,1)\in p \implies B_1(1,3)\in p_1 \end{array}\right\} \implies p_1 \ldots y-0=\frac{3-0}{1-0}(x-0)$$
$$y=3x$$
$$3x-y=0$$

2) $b \quad \ldots \quad x+y=0,\ y=-x$



$$\left.\begin{array}{l} A(0,0)\in p \implies A_2(0,0)\in p_2 \\ B(3,1)\in p \implies B_2(-1,-3)\in p_2 \end{array}\right\} \implies p_2 \ldots y-0=\frac{-3-0}{-1-0}(x-0)$$
$$y=-3x$$
$$3x-y=0$$