

$$d) \begin{cases} 2(y-x) + 4 = 2y \\ y - (x+1)^2 = 2 - (x-1)^2 \end{cases}$$

$$\begin{cases} 2y - 2x + 4 = 2y \\ y - (x^2 + 2x + 1) = 2 - (x^2 - 2x + 1) \end{cases}$$

$$\begin{cases} y - (x^2 + 2x + 1) = 2 - (x^2 - 2x + 1) \end{cases}$$

$$-2x = -4 \quad | : (-2)$$

$$\begin{cases} x = 2 \\ y - 2x = 2 + 2x \end{cases}$$

$$\begin{cases} x = 2 \\ y = 2 + 4x \end{cases}$$

$$\begin{cases} x = 2 \\ y = 10 \end{cases}$$

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$$d) \begin{cases} 2(y-x) + 4 = 2y \\ y - (x+1)^2 = 2 - (x-1)^2 \end{cases}$$

$$2(10-2) + 4 = 20 \quad \text{ok}$$

$$10 - (2+1)^2 = 2 - (2-1)^2$$

$$10 - 9 = 2 - 1 \quad \text{ok}$$

260.* Znajdź rozwiązania poniższych układów równań.

$$a) \begin{cases} y = |x| + 3 \\ x + y = 4 \end{cases}$$

$$b) \begin{cases} |x+y| = 3 \\ x-y = 2 \end{cases}$$

$$c) \begin{cases} |x-y| = 5 \\ x-y = 5 \end{cases}$$

$$d) \begin{cases} |x-1| + |x+y| + 1996 = 0 \\ |x-y-z| - |y| = 1996 \end{cases}$$

$$e) \begin{cases} |x-3| + |x-y| = 0 \\ |x-y-z| - |y| = 0 \end{cases}$$

$$f) \begin{cases} \frac{1}{x} + \frac{1}{y} = 5 \\ \frac{3}{x} - \frac{5}{y} = -9 \end{cases}$$

$$g) \begin{cases} |x-1| + |y-5| = 1 \\ x-y = -5 \end{cases}$$

$$h) \begin{cases} x^2 - 1 = y^2 \\ x - y = 1 \end{cases}$$

$$i) \begin{cases} \frac{x}{x+2y+2} = \frac{x+3}{x+2y-1} \\ x - (2x-y) = -3 \end{cases}$$

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5.22

i) $\begin{cases} \frac{x}{x+2y+2} = \frac{x+3}{x+2y-1} \\ x-(2x-y) = -3 \end{cases}$

$\downarrow$

$-1+(2+y) = -3$

$\begin{cases} y = -4 \\ x = -1 \end{cases} \quad (-1, -4)$

$\begin{cases} y = x-3 \\ x = -1 \end{cases}$

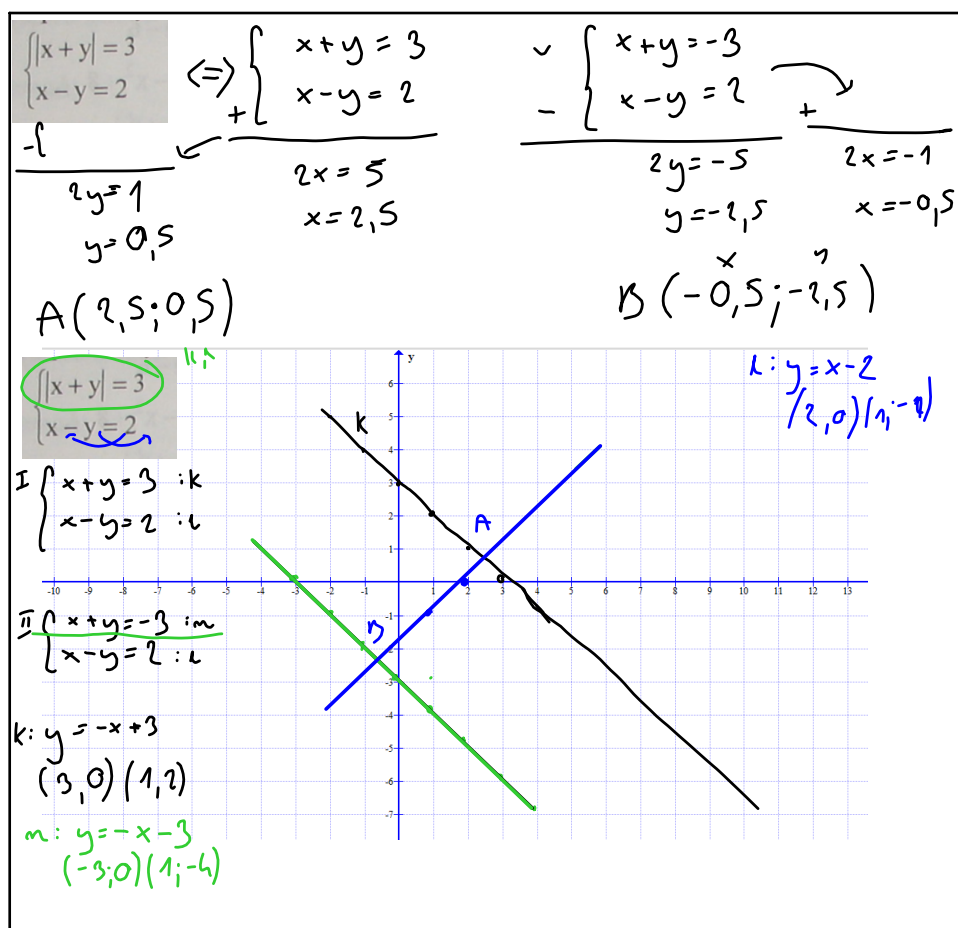
$x^2+2xy-x = (x+3)(x+2y+2)$

$\cancel{x^2}+2\cancel{xy}-x = \cancel{x^2}+2\cancel{xy}+2x+3x+6$

$-6x = 6$

$x = -1$

$x = -1$



$$\begin{cases} |x+y|=3 \\ x-y=2 \end{cases}$$

$$x = 2 + y$$

$$|2+2y|=3 \Leftrightarrow \begin{array}{l} 2+2y=3, \vee \quad 2+2y=-3 \\ y=0,5 \qquad \qquad y=-2,5 \end{array}$$