

2244

a) $|x-2| < 3 \Leftrightarrow -3 < x-2 < 3 \Leftrightarrow -1 < x < 5$

$x^2 - 2x - 8 \leq 0$

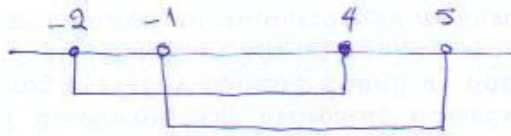
$\Delta = 4 + 32 = 36$

$x_{1,2} = \frac{2 \pm 6}{2}$

$\frac{x}{x^2 - 2x - 8} \quad \begin{array}{c|cc} & -2 & 4 \\ \hline & + & - \end{array}$

$x \in [-2, 4]$

B)



$x \in (-1, 4]$

b) $-1 < p_1 \leq 4$

$-1 < p_2 \leq 4 \quad \oplus$

$-1 < \frac{p_1 + p_2}{2} \leq 4$