

Решение задач

По алгебре

№6.09(a)

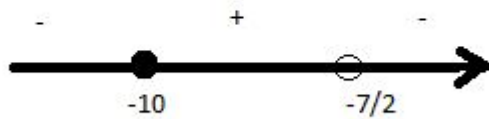
- $$\sqrt{\frac{x-3}{2x+7}} \leq 1$$

$$\begin{cases} \frac{x-3}{2x+7} \leq 1 \\ \frac{x-3}{2x+7} \geq 0 \end{cases}$$

- 1

- $\frac{x-3}{2x+7} \leq 1$

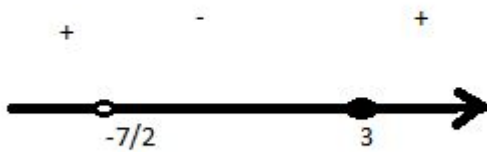
- $\frac{-x-10}{2x+7} \leq 0$



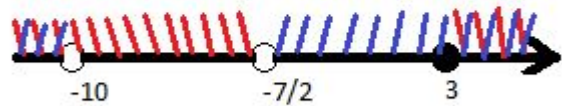
- $x \leq -10, x > -\frac{7}{2}$

- 2

- $\frac{x-3}{2x+7} \geq 0$



- $x < -\frac{7}{2}, x \geq 3$

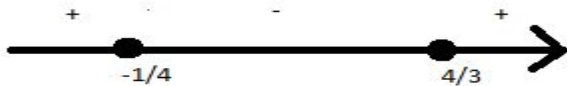


$$\begin{cases} (x \leq -10) \\ (x > -\frac{7}{2}) \\ (x < -\frac{7}{2}) \\ (x \geq 3) \end{cases}$$

Ответ: $x \leq -10, x \geq 3$

№5.12(б)

- $|3 - 7x| \leq |x + 5|$
- $(3 - 7x)^2 - (x + 5)^2 \leq 0$
- $(-8x - 2)(-6x + 8) \leq 0$
- $(4x + 1)(3x - 4) \leq 0$



- Ответ: $-\frac{1}{4} \leq x \leq 1\frac{1}{3}$