

Решите неравенство:

1)
$$(x+2)(x-8)(x+5) < 0$$
;

2)
$$(x+5)^2(x-6)(8-x) \ge 0$$
;

3)
$$\frac{x}{x-3} + \frac{2}{x} - \frac{2}{x^2 - 3x} \le 0$$
.

4)
$$(x^2-36)\sqrt{x+4} \ge 0$$
.

$$(X+5)-(X-8)-(X+2)=0$$

$$(X+5)^{2}(X+5)(X+5)$$

$$(x+5)(x+5)(x-6)(8-x) \ge 0$$

3)
$$\frac{\chi}{\chi - 3} + \frac{2}{\chi} - \frac{2}{\chi^2 - 3\chi} \leq 0$$

$$\begin{array}{c} \chi + 5 \neq 0; \chi \neq 3 \\ \chi \neq 0 \\ \chi^2 - 5 \chi \neq 0, \chi (\chi - 3) \neq 0; \chi \neq 0; \chi \neq 3 \end{array}$$

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$$\frac{X}{X-3} + \frac{2^{(X-3)}}{X} = \frac{2}{X(X-3)} \leq 0$$

$$\frac{X^{2} + 2x - 6 - 2}{X(X - 3)} \leq D$$

$$\frac{X^{2} + 2x - 8}{X(X - 3)} \leq D$$

$$\frac{x^{2}+2-x-8}{X(x-3)} \leq 0$$



$$\begin{cases} x^2 + 2x - 8 > 0 \\ x(x-3) < 0 \end{cases}$$

$$\chi^2 + 2\chi - 8 = 0$$

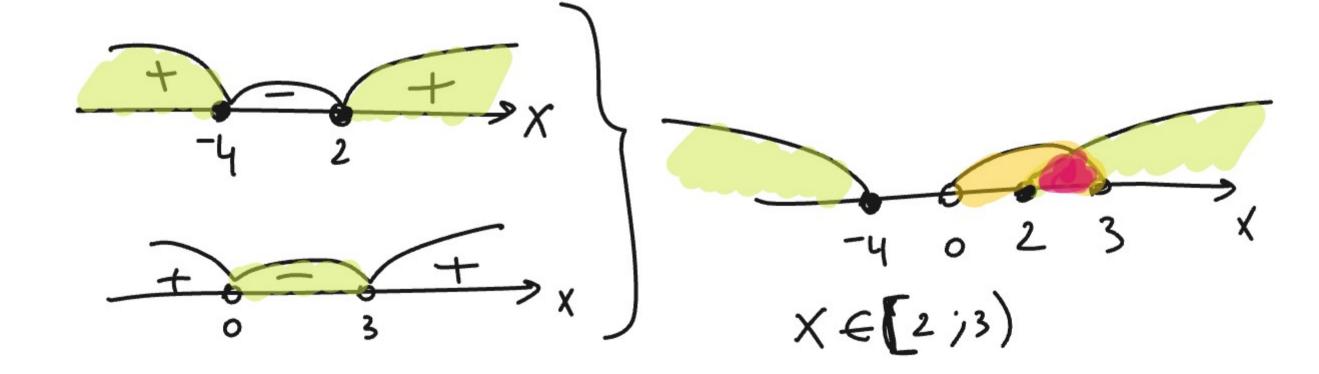
 $2 = 6^2 - 4016 = 36 = 6^2$

$$X = -B \pm \sqrt{8}$$

$$X = \frac{-2+6}{2} = \frac{4}{2} = 2$$

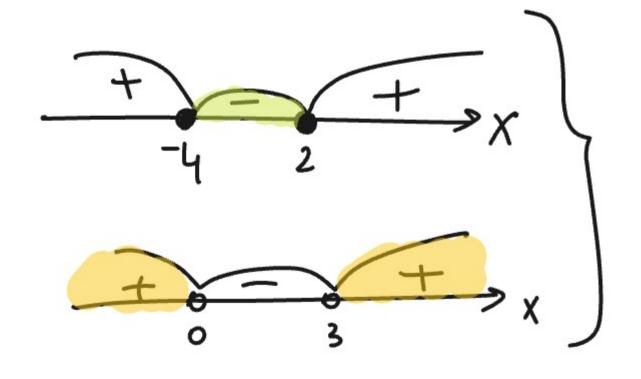
$$\begin{cases} x^2 + 2x - 8 > 0 \\ x(x-3) < 0 \end{cases}$$

$$\begin{cases} (x-2)(x+4) > 0 \\ x(x-3) < 0 \end{cases}$$



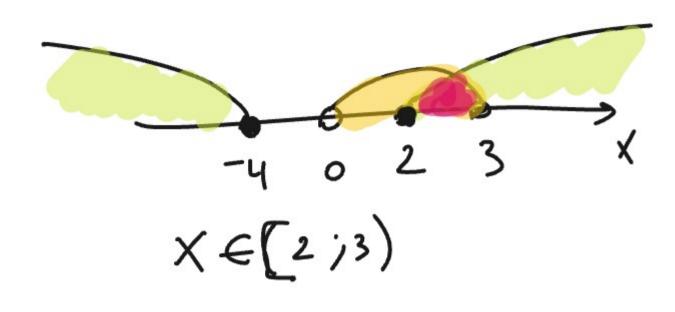
$$(x^{2}+2x-840)$$

$$\int (X-2)(x+4) \leq 0$$
$$\chi(X-3) > 0$$



$$-4023$$

 $X \in (-4,0)$





$$X \in [-4,0) \cup [2,3)$$

$$\left(\int_{2x+3}^{2x+3} - \int_{4-x}^{4-x} \right)^{2} = 4$$

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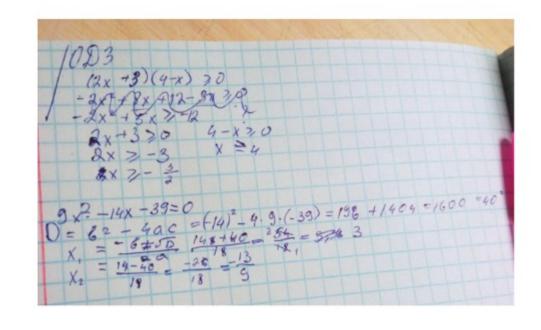
$$\left(\int_{4-x}^{4-x} - \int_{4-x}^{4-x} \right)^{2} = 4$$

$$\left(\int_{4-$$

-2.
$$4 \cdot (2x+3) \cdot (4-x) = 9+6x+x^2$$

 $(8x+12) \cdot (4-x) = 9+6x+x^2$
 $52x-8x^2+18-12x-9-6x-1x^2=0$
 $14y-9x^2+39=0$
 $-9x^2+14x+39=0$ (f 1)
 $9x^2-14x-39=0$

$$X = -\frac{13}{9} \approx -1,44 j X = 3$$



MMM

TPOBEPKA $\sqrt{2x+3} - \sqrt{4x} = 2$ $\sqrt{2\cdot3+3} - \sqrt{4-3} = 2$ 3 - 1 = 2 2 = 2 (6epuo)