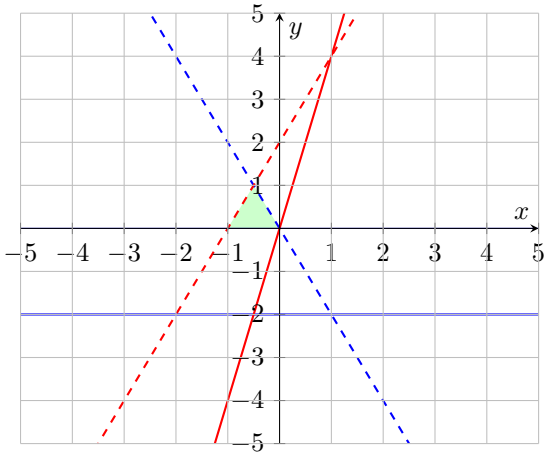
1.

$|x-1|+x>|2x+1|$

$|x-1|+x-|2x+1|>0$

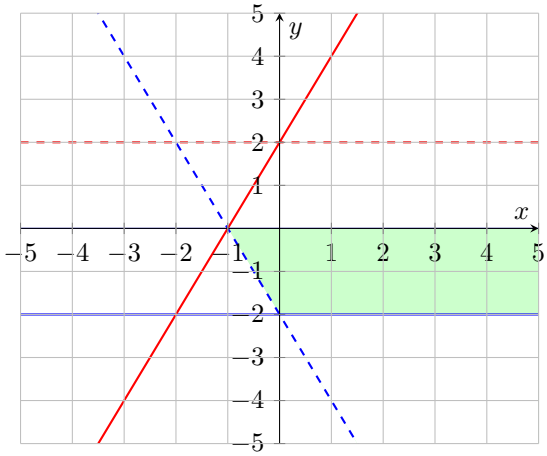


$x\in(-1,0)$

2.

$|x| < |x+2|$

$|x| - |x+2| < 0$

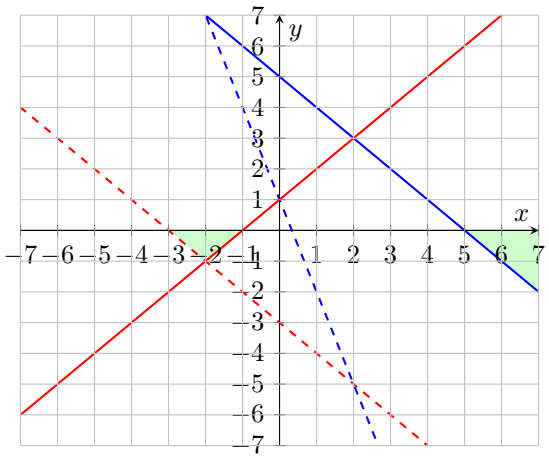


$x \in (-1, \infty)$

3.

$|x+2| - |x-2| \leq x - 1$

$|x+2| - |x-2| - x + 1 \leq 0$

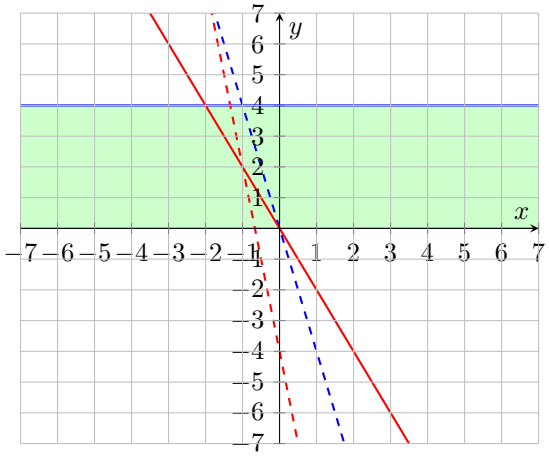


$x \in [-3, -1] \cup [5; \infty)$

4.

$2|x+1| > 3x - |x+2|$

$2|x+1| - 3x + |x+2| > 0$

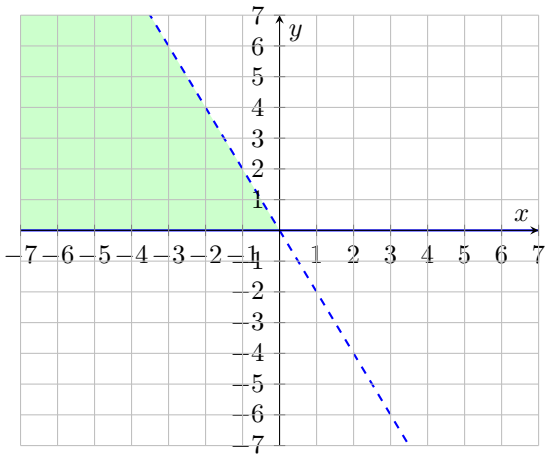


$x \in (-\infty; \infty)$

5.

$|x| > x$

$|x| - x > 0$

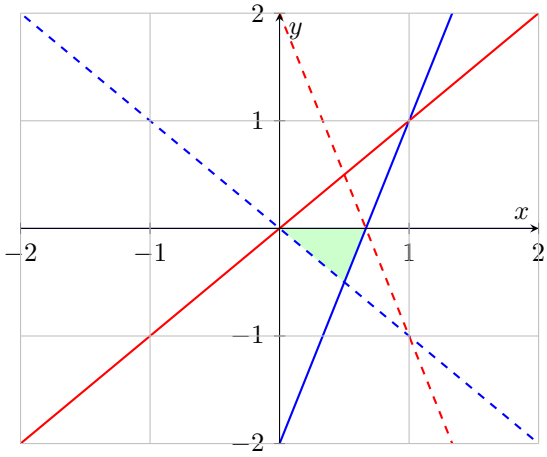


$x \in (-\infty; 0)$

6.

$|2x-1| < |1-x|$

$|2x-1| - |1-x| < 0$

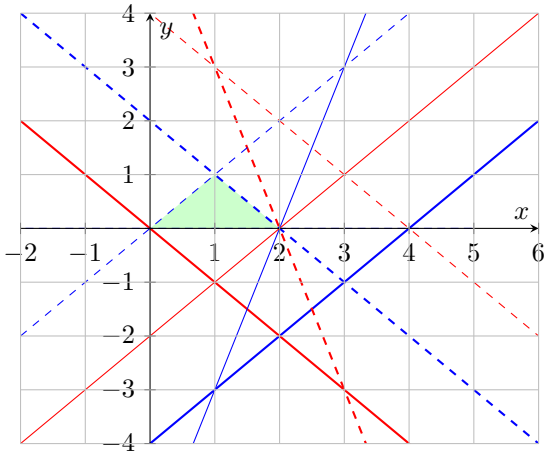


$x \in (0; \frac{2}{3})$

7.

$|x-3|-|2-x| \geq |x-1|$

$|x-3|-|2-x|-|x-1| \geq 0$

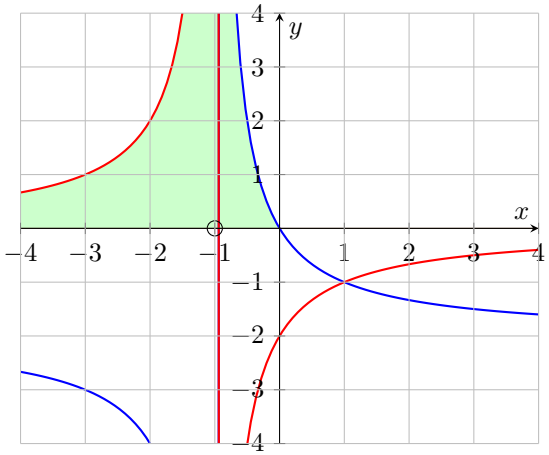


$x \in [0;2]$

8.

$$\left|\frac{1-x}{x+1}\right| \geq 1$$

$$\left|\frac{1-x}{x+1}\right| - 1 \geq 0$$

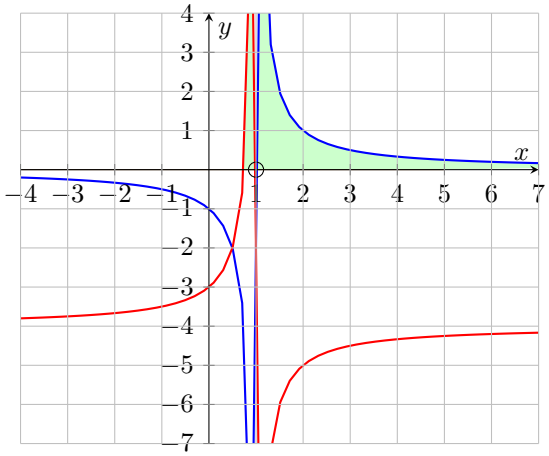


$x \in (-\infty; -1) \cup (-1; 0]$

9.

$$|\frac{2x-1}{x-1}| \geq 2$$

$$|\frac{2x-1}{x-1}| - 2 \geq 0$$

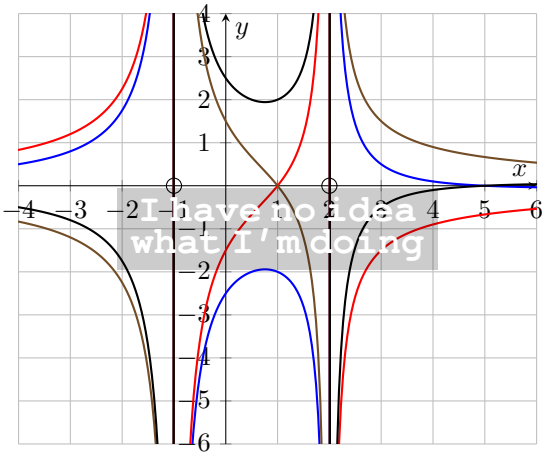


$$x \in [\frac{3}{4}; 1) \cup (1; \infty)$$

10.

$$\frac{1}{|x-2|} < \frac{2}{|x+1|}$$

$$\frac{1}{|x-2|} - \frac{2}{|x+1|} < 0$$

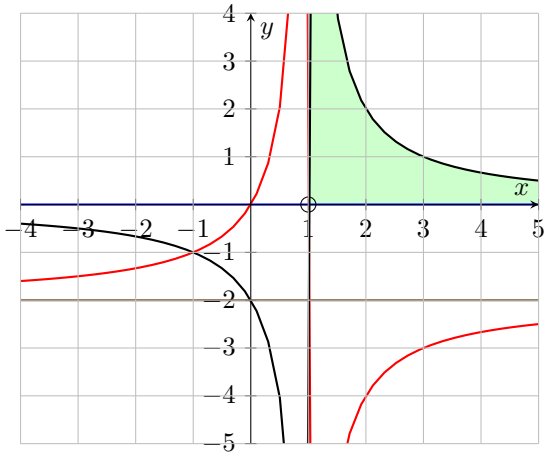


$x \in (-\infty; -1) \cup (-1; 1) \cup (5; \infty)$

11.

$$\frac{|x|-1}{|x-1|} \geq 1$$

$$\frac{|x|-1}{|x-1|} - 1 \geq 0$$

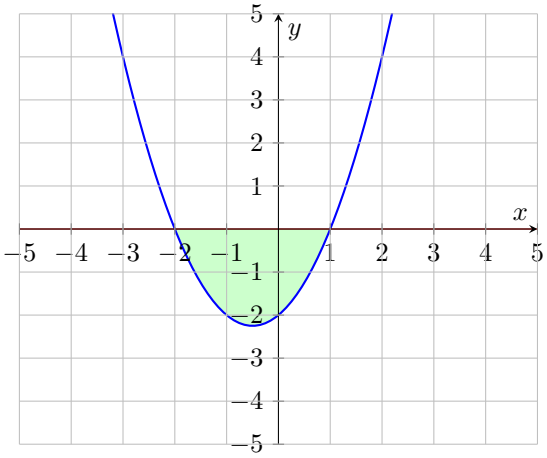


$x \in (1, \infty)$

12.

$x^2 + x - 2 < 0$

$x \in \{-2; 1\}$

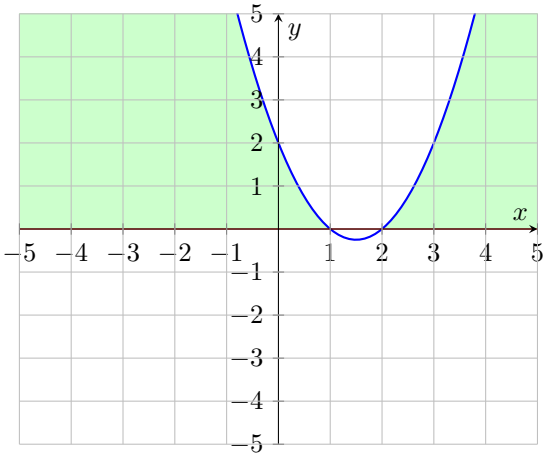


$x \in (-2, 1)$

13.

$x^2 - 3x + 2 \geq 0$

$x \in \{1; 2\}$

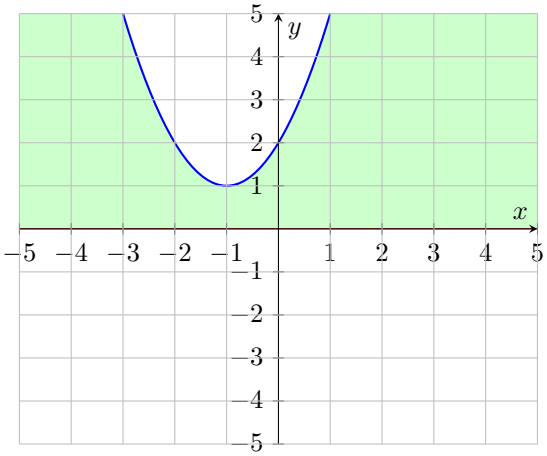


$x \in (-\infty, 1] \cup [2; \infty)$

14.

$x^2 + 2x + 2 > 0$

$x \in \emptyset$

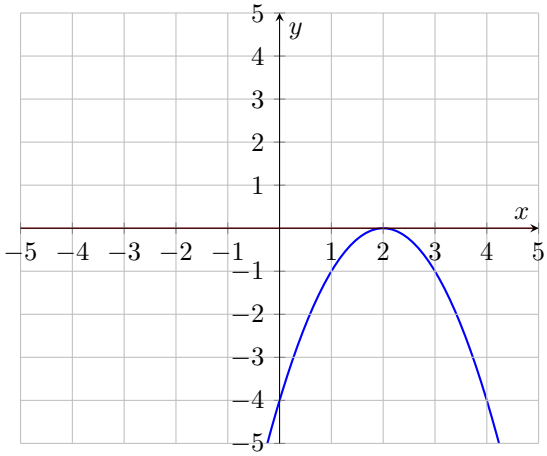


$x \in (-\infty, \infty)$

15

$-x^2 + 4x - 4 > 0$

$x_1 = x_2 = 2$

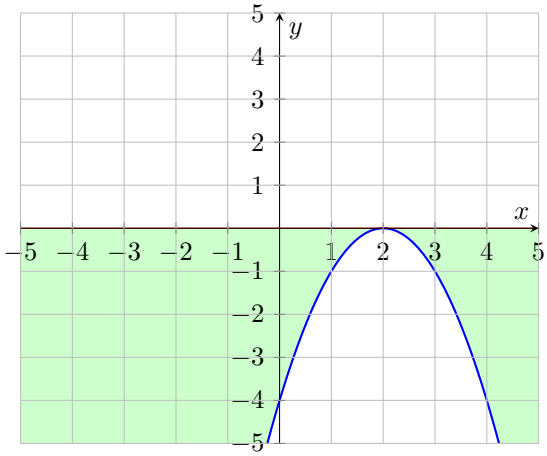


$x \in \emptyset$

16

$-x^2 + 4x - 4 \leq 0$

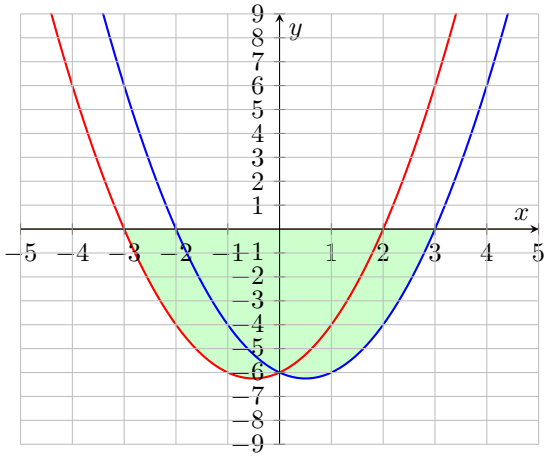
$x_1 = x_2 = 2$



$x \in (\infty, -\infty)$

17

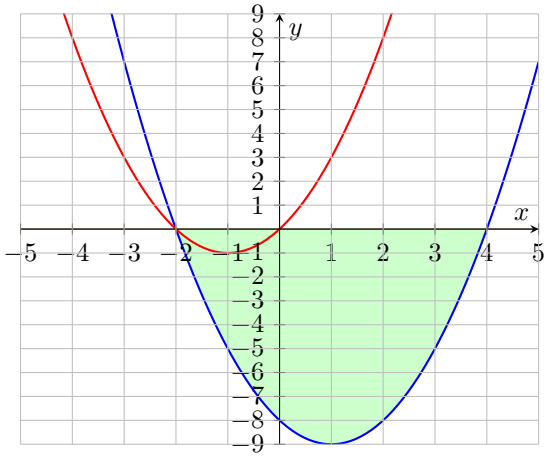
$x^2 - |x| - 6 < 0$



$x \in (-3; 3)$

18

$x^2 - 2|x+2| - 4 \leq 0$

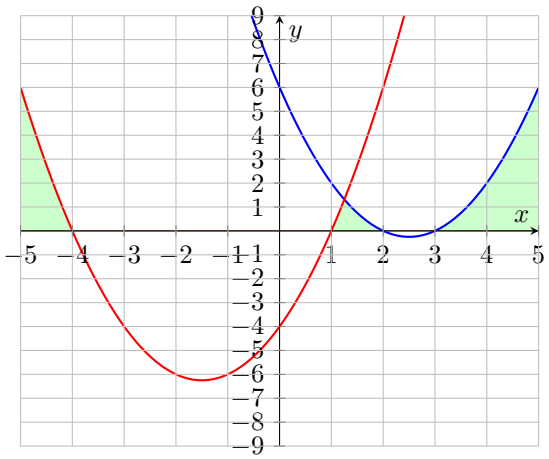


$x \in [-2; 4]$

19

$x^2 - |4x - 5| > x - 1$

$x^2 - |4x - 5| - x + 1 > 0$

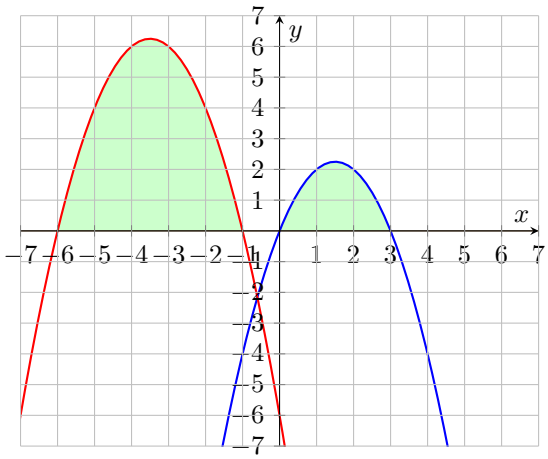


$x \in (-\infty; -4) \cup (1; 2) \cup (3; \infty)$

20

$|5x+3| > x^2+2x+3$

$|5x+3| - x^2 - 2x - 3 > 0$



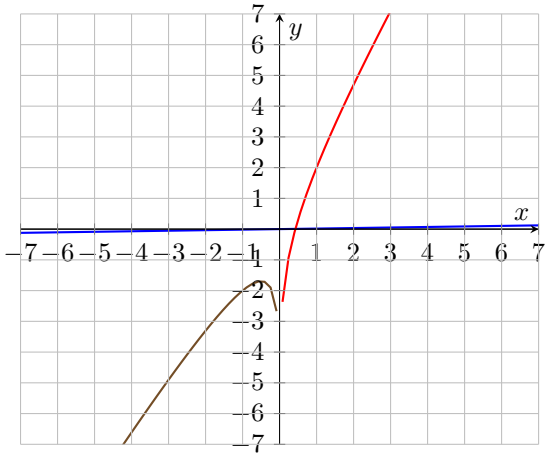
$x \in (-6;-1) \cup (0;3)$

21

$$\begin{cases} x = \sin t \\ y = \ln|t| + 2t \end{cases}$$

$t = \pm \arcsin x \cdot n\pi; n \in Z$

$y = \ln|\arcsin x \cdot n\pi| \pm 2\arcsin x + 2n\pi; n \in Z$



$x \in (-6; -1) \cup (0; 3)$