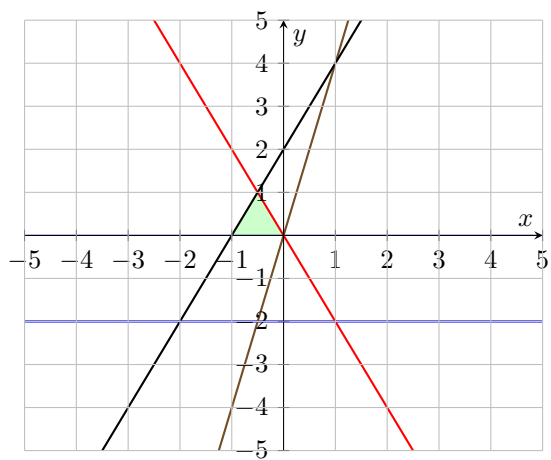


①.

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

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

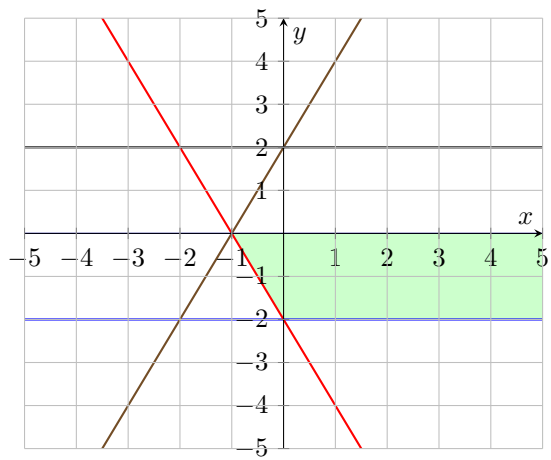


$$x \in (-1, 0)$$

2.

$$|x| < |x + 2|$$

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

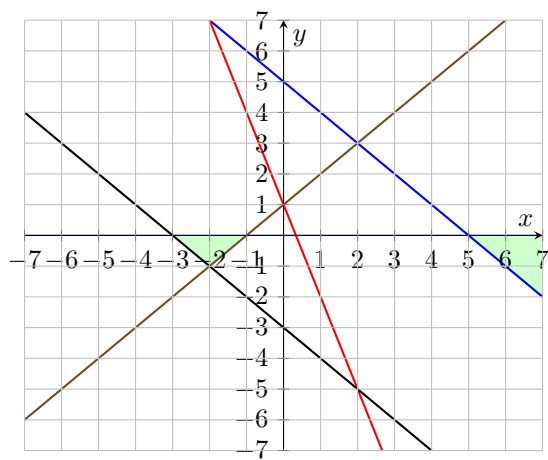


$$x \in (-1, \infty)$$

2.

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

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

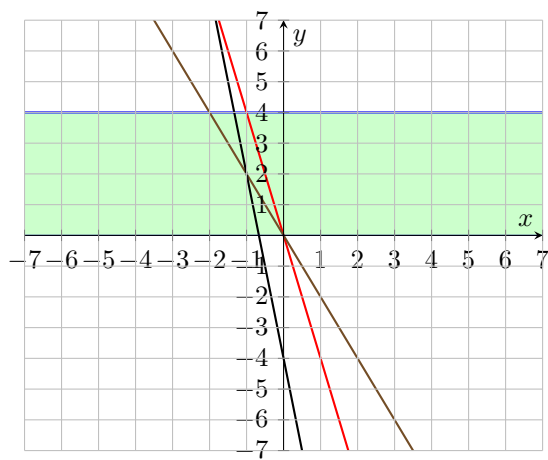


$$x \in [-3, -1] \cup [5; \infty)$$

④.

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

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

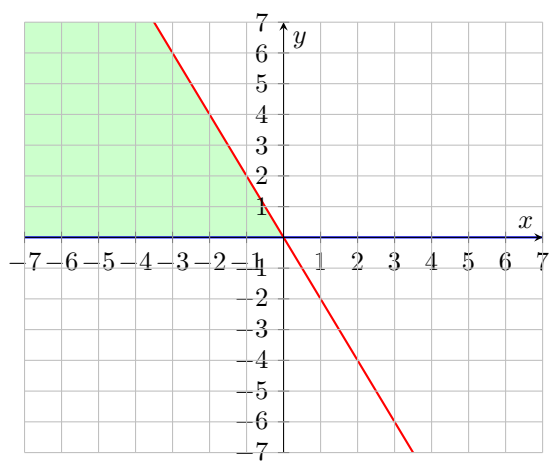


$$x \in (-\infty; \infty)$$

5.

$$|x| > x$$

$$|x| - x > 0$$

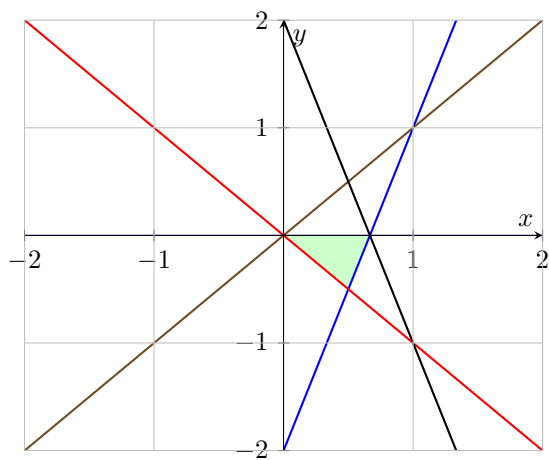


$$x \in (-\infty; 0)$$

⑥.

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

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

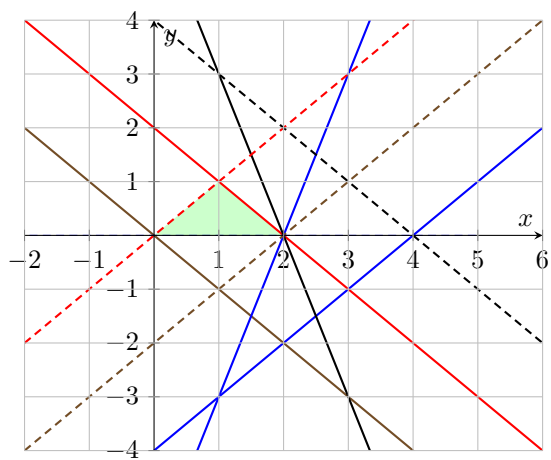


$$x \in (0; \frac{2}{3})$$

7.

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

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

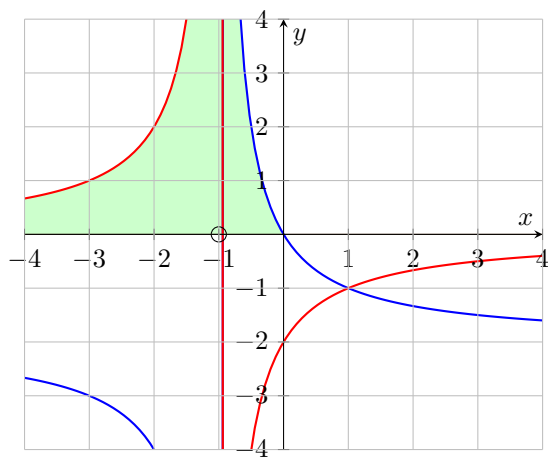


$$x \in [0; 2]$$

8.

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

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



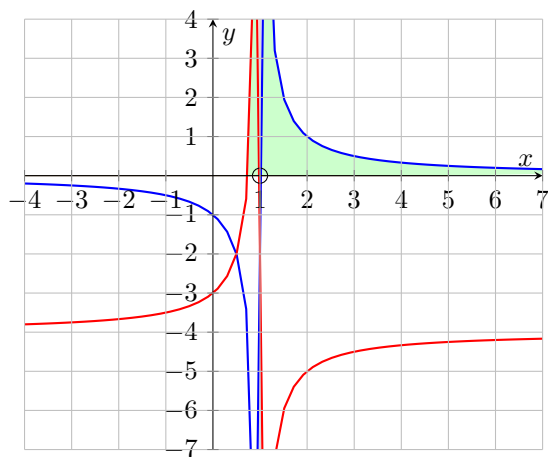
$$x \in (-\infty; -1) \cup (-1; 0]$$



9.)

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

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

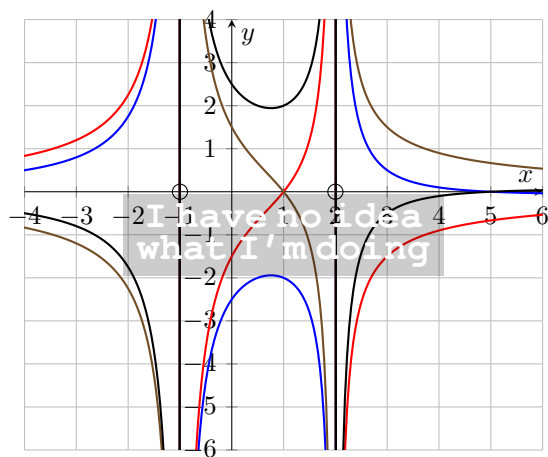


$$x \in \left[ \frac{3}{4}; 1 \right) \cup (1; \infty)$$

10.

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

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

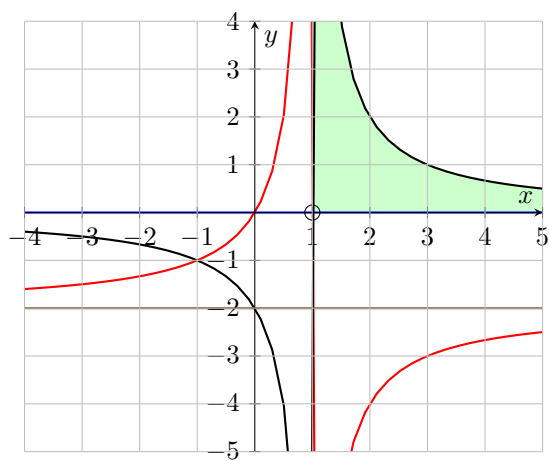


$$x \in (-\infty; -1) \cup (-1; 1) \cup (5; \infty)$$

11.

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

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

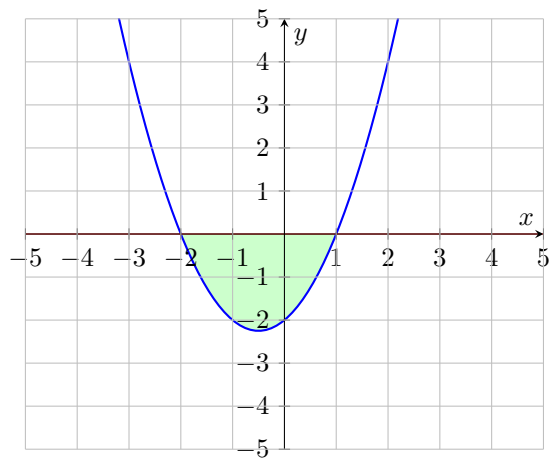


$$x \in (1, \infty)$$

12.

$$x^2 + x - 2 < 0$$

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

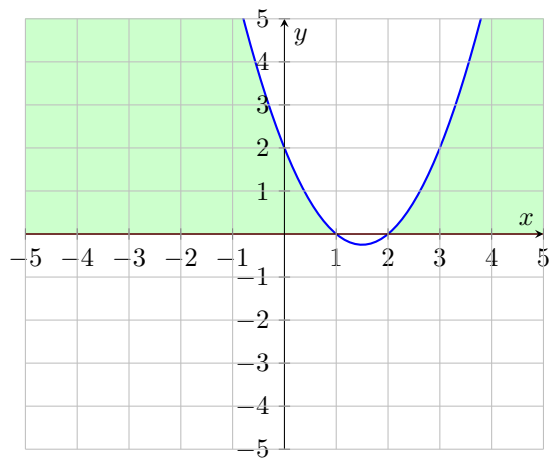


$$x \in (-2, 1)$$

13.

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

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

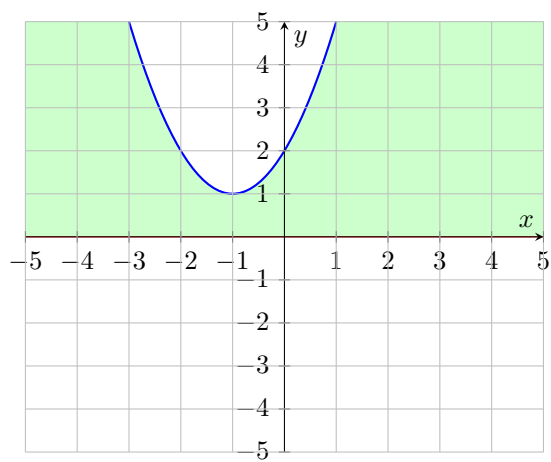


$$x \in (-\infty, 1] \cup [2; \infty)$$

14.

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

$$x \in \emptyset$$

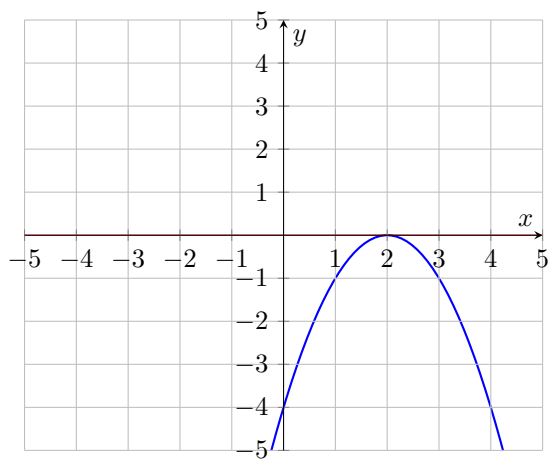


$$x \in (-\infty, \infty)$$

15

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

$$x_1 = x_2 = 2$$

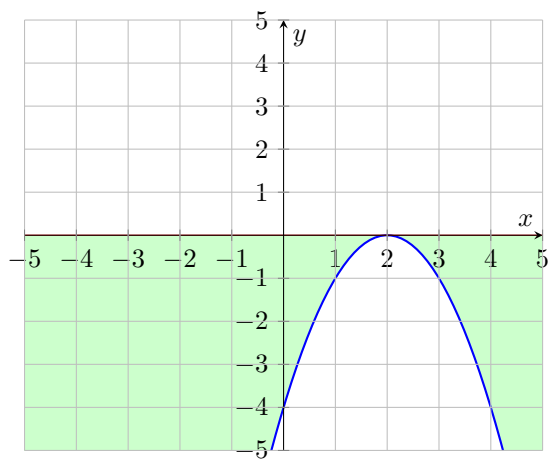


$$x \in \emptyset$$

16

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

$$x_1 = x_2 = 2$$

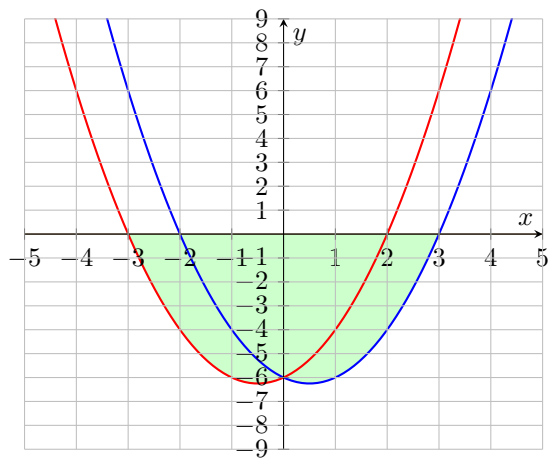


$$x \in (\infty, -\infty)$$



17

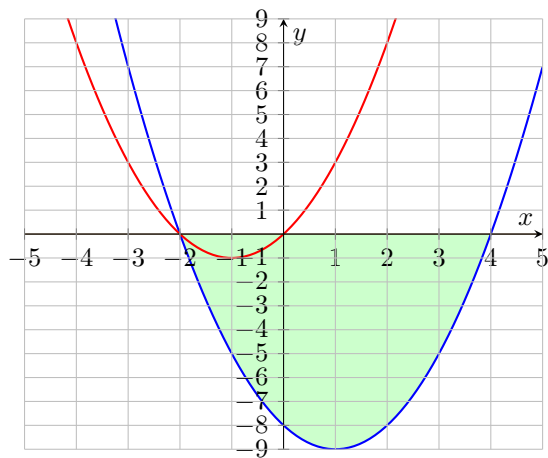
$$x^2 - |x| - 6 < 0$$



$$x \in (-3; 3)$$

18

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

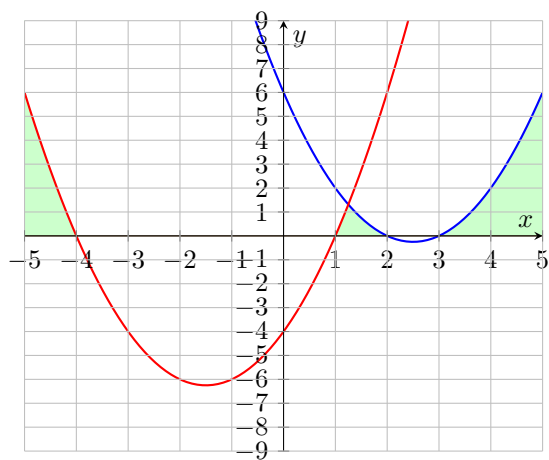


$$x \in [-2; 4]$$

19

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

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

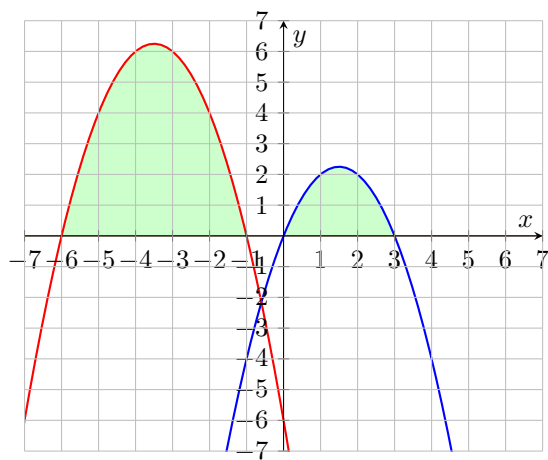


$$x \in (-\infty; -4) \cup (1; 2) \cup (3; \infty)$$

20

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

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



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