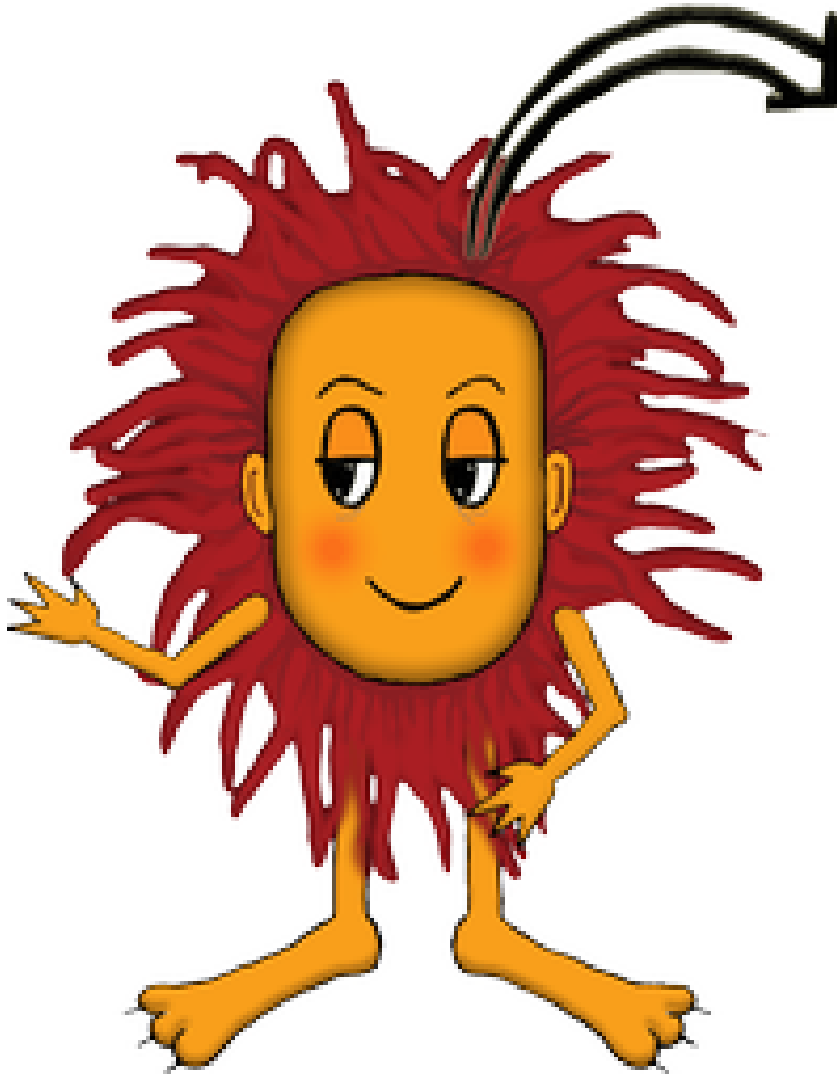


Velika logična pošast



Nenačbe $|ax+b|+|cx+d|>e$

Reši neenačbo oblike
 $|ax+b|+|cx+d|>e$.
Nalogo reši tudi grafično.

1.

$$|2 - x| + |x - 2| > 6$$

2.

$$|-x - 1| + |2x - 1| > 7$$

3.

$$|x - 2| + 2|x| > 4$$

4.

$$|-2x - 2| + |x - 1| > 5$$

5.

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

6.

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

7.

$$|x - 1| + |x + 2| > 5$$

8.

$$|-x - 2| + |2x + 1| > 6$$

9.

$$|x + 1| + |2x - 2| > 7$$

10.

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

11.

$$|1 - 2x| + |x + 1| > 5$$

12.

$$|-2x - 2| + |-x - 2| > 4$$

13.

$$|-x - 2| + |2 - x| > 7$$

14.

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

15.

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

16.

$$|2x - 1| + |2x + 2| > 6$$

17.

$$|-2x - 2| + |1 - x| > 7$$

18.

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

19.

$$2|x| + |2x - 2| > 7$$

20.

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

21.

$$|x| + |2x - 2| > 5$$

22.

$$|1 - 2x| + |x + 1| > 5$$

23.

$$|-x - 1| + 2|x| > 7$$

24.

$$2|x| + |x + 2| > 6$$

25.

$$2|x + 1| > 4$$

26.

$$|1 - 2x| + |x + 1| > 5$$

27.

$$|x - 1| + |2x - 1| > 5$$

28.

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

29.

$$|1 - 2x| + |x - 2| > 5$$

30.

$$|x| + |2x - 1| > 7$$

31.

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

32.

$$|2x - 2| + |2x - 1| > 6$$

33.

$$|1 - 2x| + |x| > 5$$

34.

$$|-x - 2| + |x + 2| > 7$$

35.

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

36.

$$3|x| > 1$$

37.

$$|-x - 2| + |2x + 2| > 5$$

38.

$$|-2x - 2| + |2x - 2| > 5$$

39.

$$|x| + |2x + 2| > 4$$

40.

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

41.

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

42.

$$|-x - 2| + |2x - 2| > 5$$

43.

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

44.

$$2|x| + |x + 1| > 4$$

45.

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

46.

$$|x + 2| + |2x - 2| > 5$$

47.

$$|x| + |2x + 2| > 4$$

48.

$$|-x - 2| + |x - 1| > 7$$

49.

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

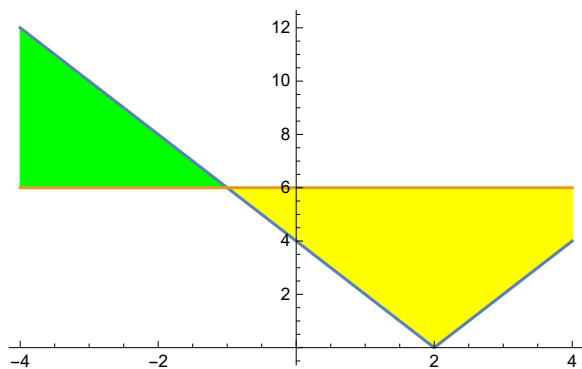
50.

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

Rešitve:

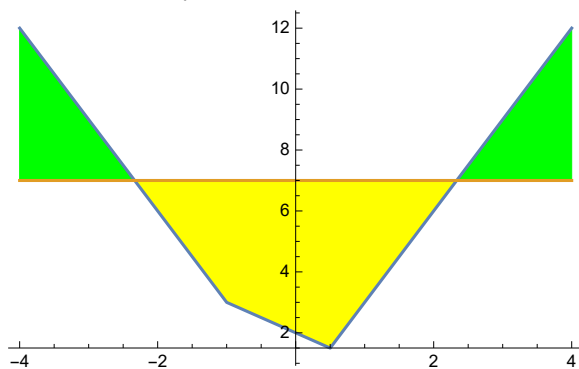
1.

$$x < -1 \vee x > 5$$



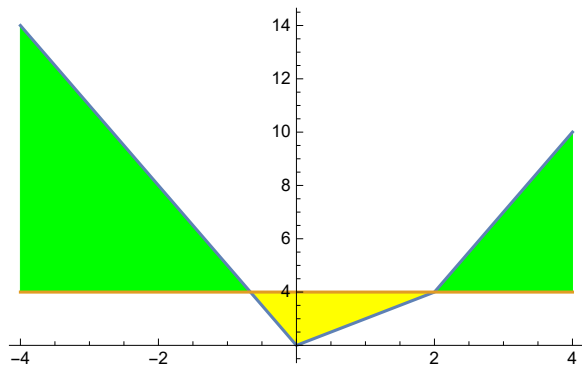
2.

$$x < -\frac{7}{3} \vee x > \frac{7}{3}$$



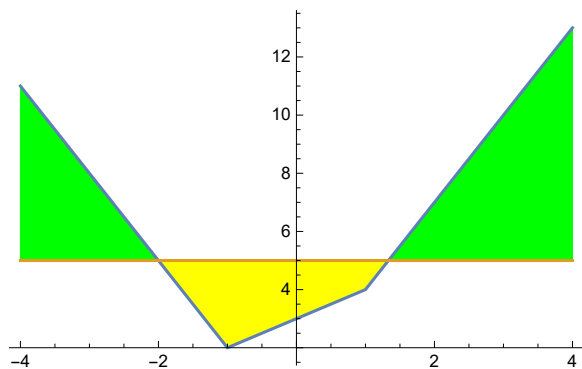
3.

$$x < -\frac{2}{3} \vee x > 2$$



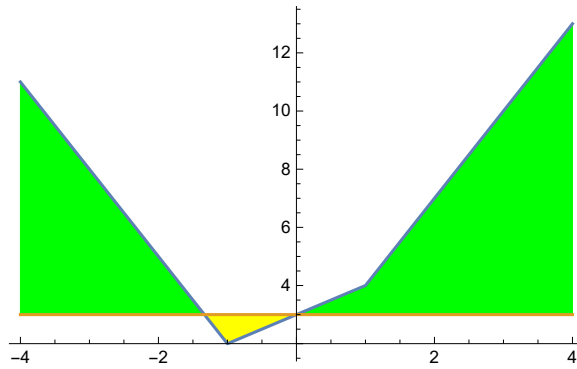
4.

$$x < -2 \vee x > \frac{4}{3}$$



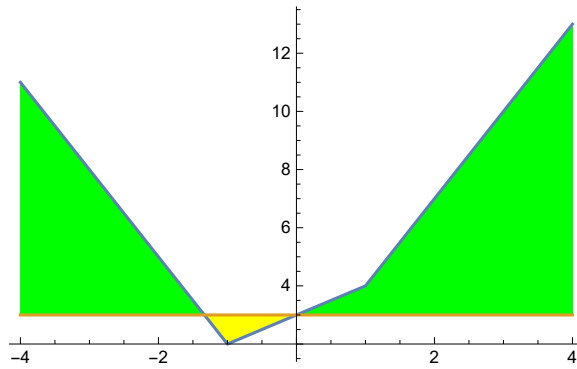
5.

$$x < -\frac{4}{3} \vee x > 0$$



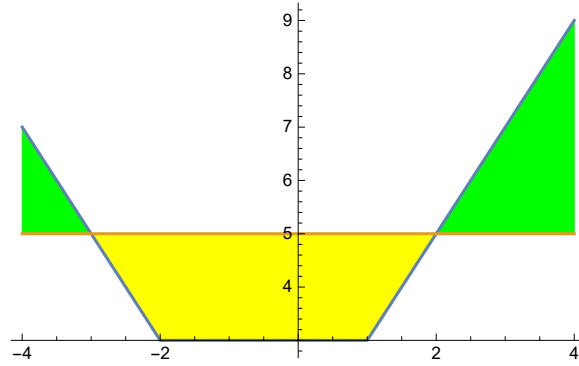
6.

$$x < -\frac{4}{3} \vee x > 0$$



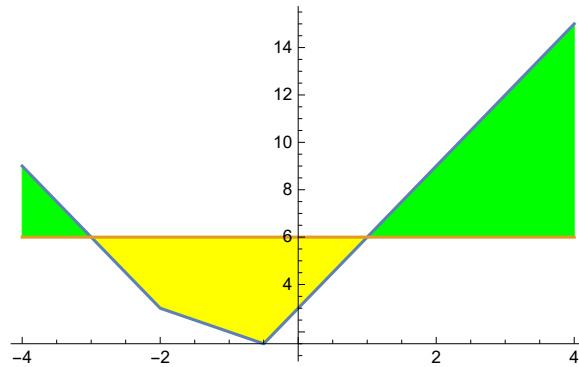
7.

$$x < -3 \vee x > 2$$



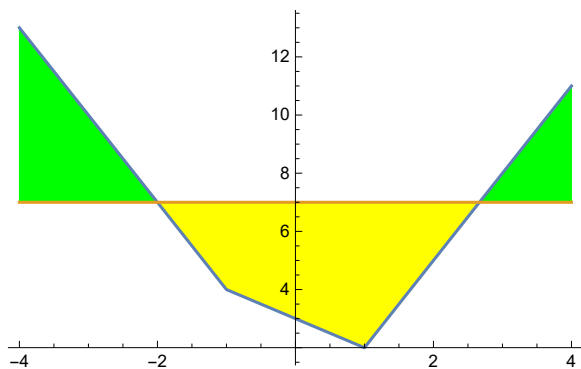
8.

$$x < -3 \vee x > 1$$



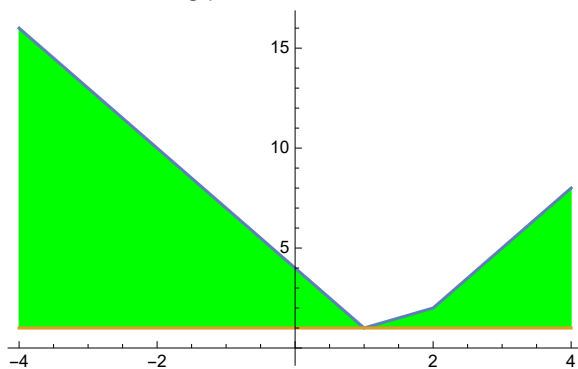
9.

$$x < -2 \vee x > \frac{8}{3}$$



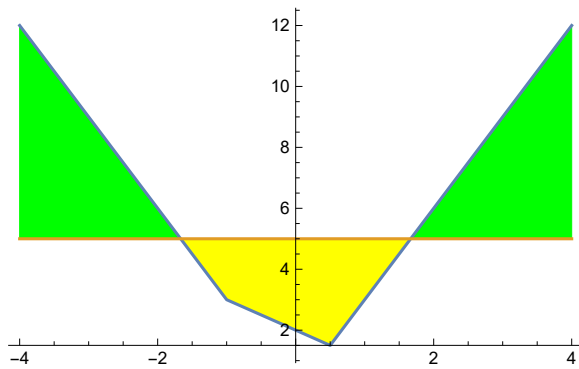
10.

$$x < 1 \vee x > 1$$



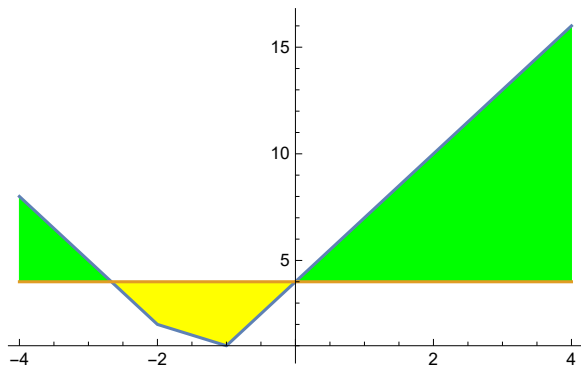
11.

$$x < -\frac{5}{3} \vee x > \frac{5}{3}$$



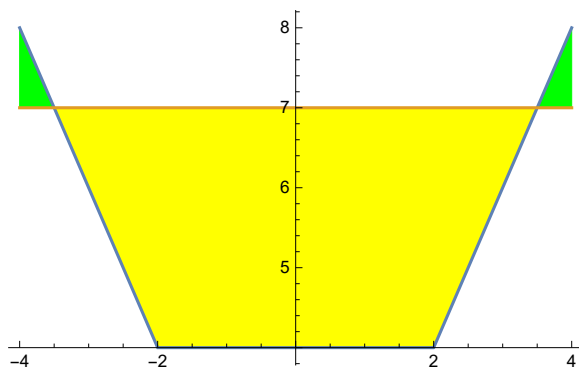
12.

$$x < -\frac{8}{3} \vee x > 0$$



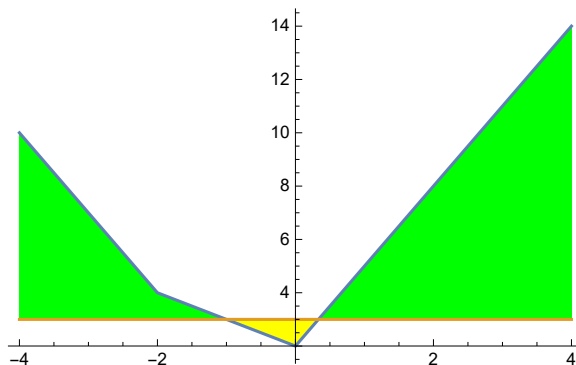
13.

$$x < -\frac{7}{2} \vee x > \frac{7}{2}$$



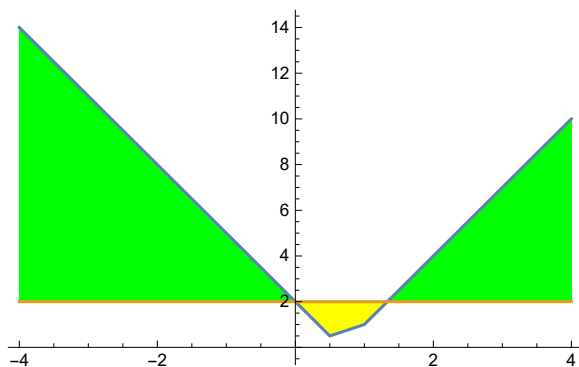
14.

$$x < -1 \vee x > \frac{1}{3}$$



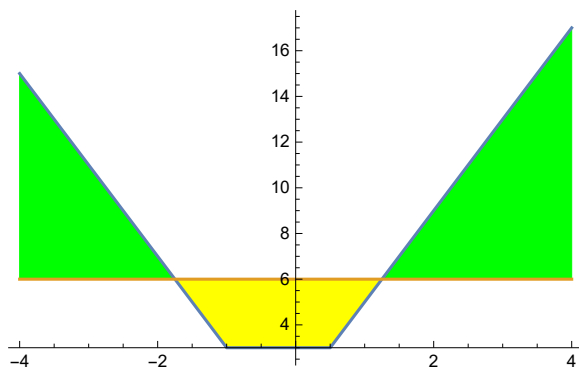
15.

$$x < 0 \vee x > \frac{4}{3}$$



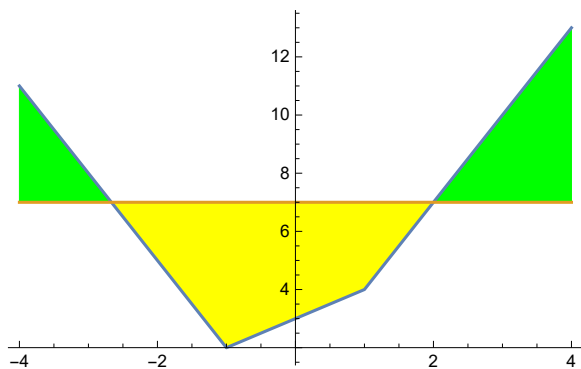
16.

$$x < -\frac{7}{4} \vee x > \frac{5}{4}$$



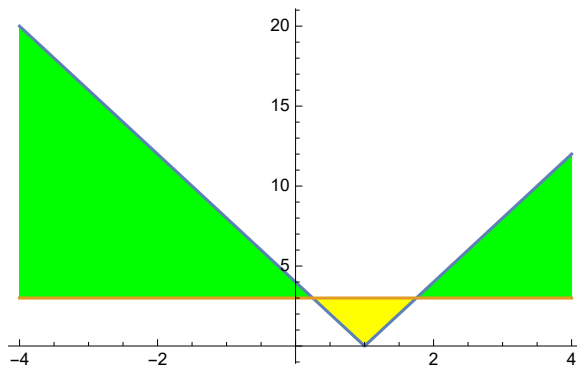
17.

$$x < -\frac{8}{3} \vee x > 2$$



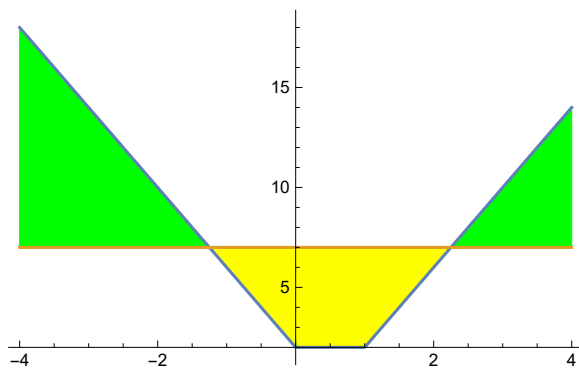
18.

$$x < \frac{1}{4} \vee x > \frac{7}{4}$$



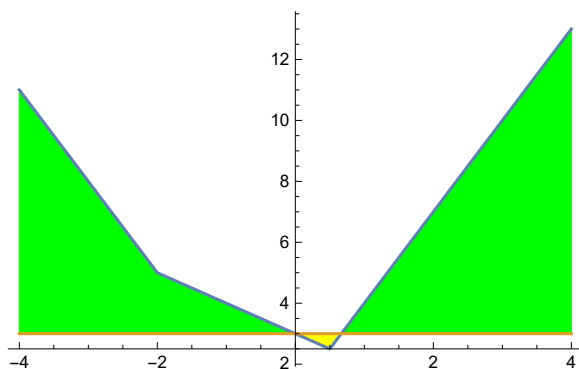
19.

$$x < -\frac{5}{4} \vee x > \frac{9}{4}$$



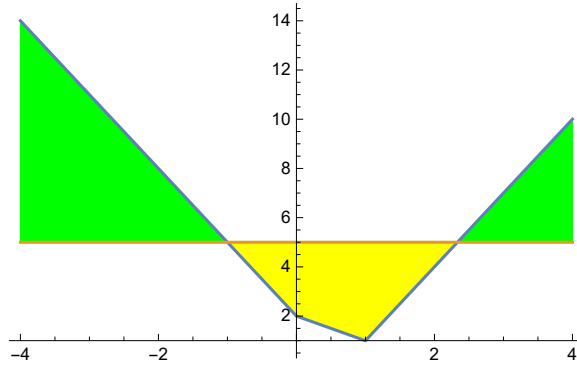
20.

$$x < 0 \vee x > \frac{2}{3}$$



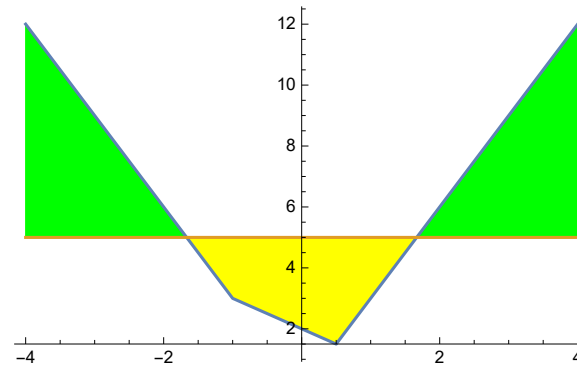
21.

$$x < -1 \vee x > \frac{7}{3}$$



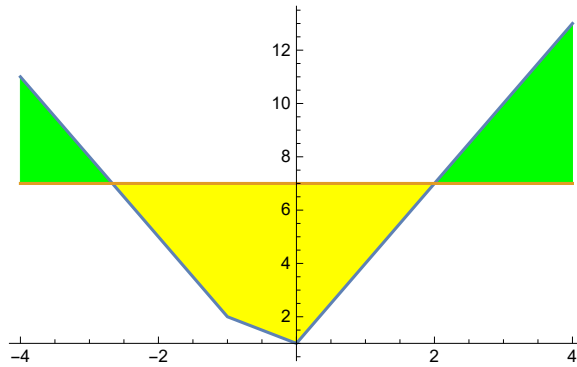
22.

$$x < -\frac{5}{3} \vee x > \frac{5}{3}$$



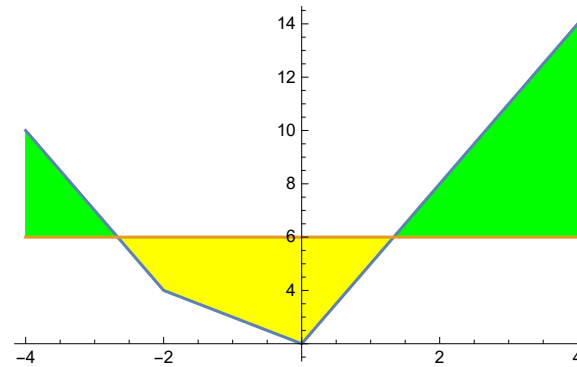
23.

$$x < -\frac{8}{3} \vee x > 2$$



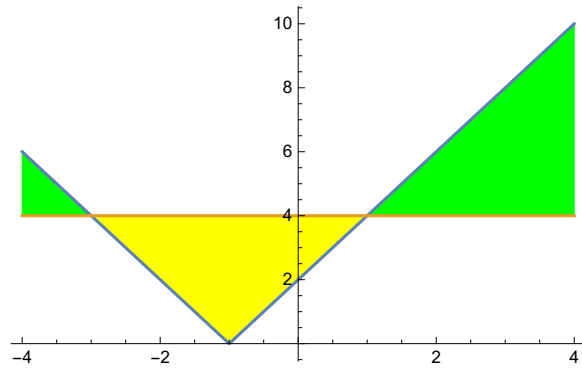
24.

$$x < -\frac{8}{3} \vee x > \frac{4}{3}$$



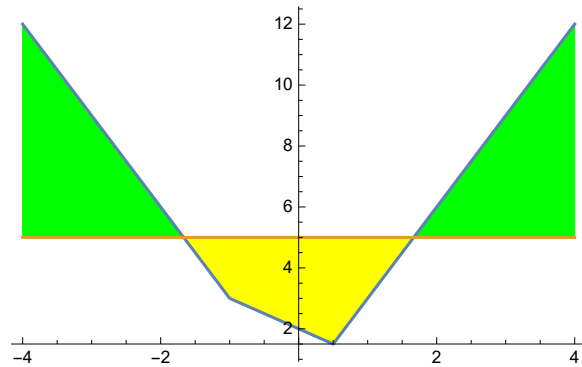
25.

$$x < -3 \vee x > 1$$



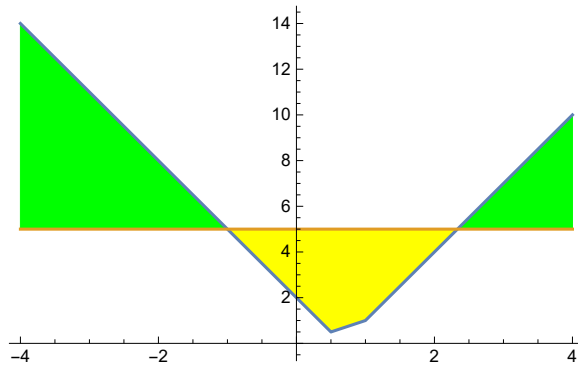
26.

$$x < -\frac{5}{3} \vee x > \frac{5}{3}$$



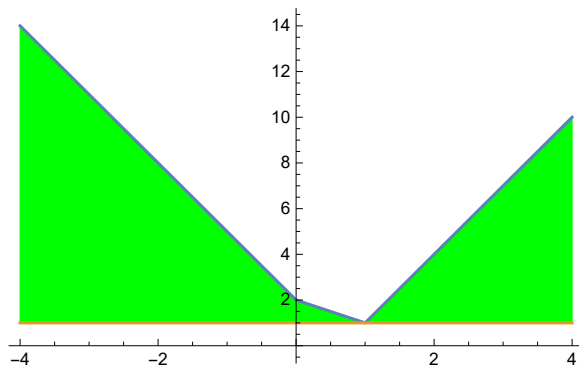
27.

$$x < -1 \vee x > \frac{7}{3}$$



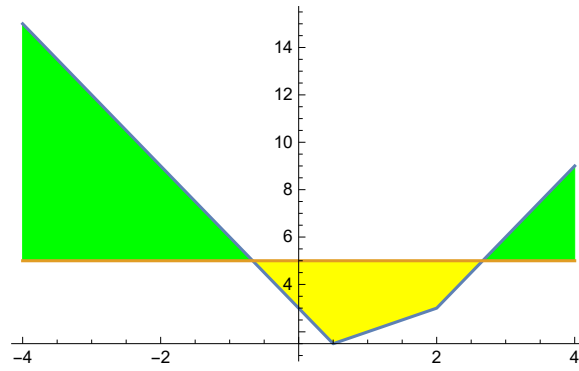
28.

$$x < 1 \vee x > 1$$



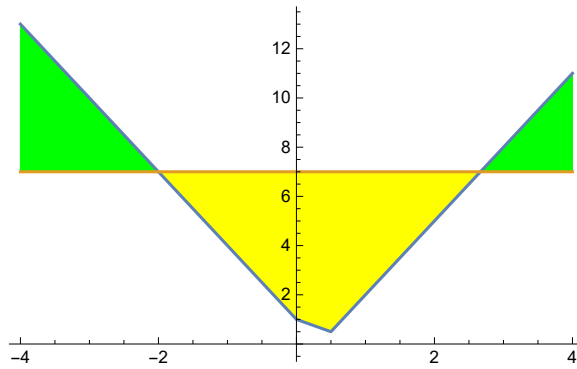
29.

$$x < -\frac{2}{3} \vee x > \frac{8}{3}$$



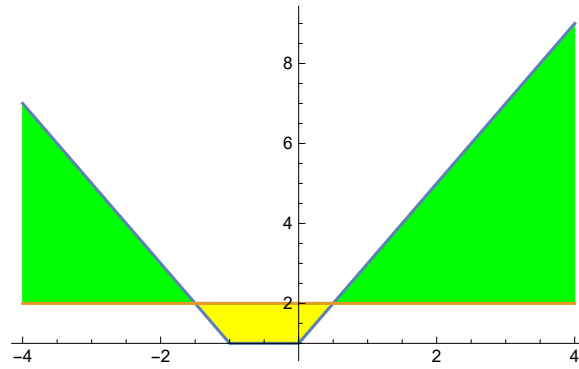
30.

$$x < -2 \vee x > \frac{8}{3}$$



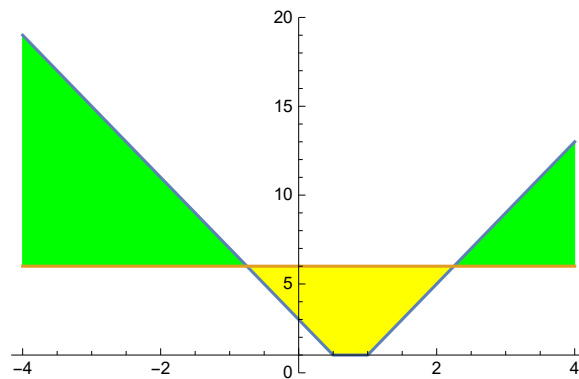
31.

$$x < -\frac{3}{2} \vee x > \frac{1}{2}$$



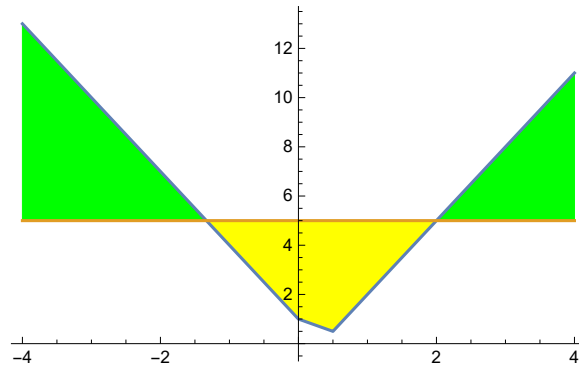
32.

$$x < -\frac{3}{4} \vee x > \frac{9}{4}$$



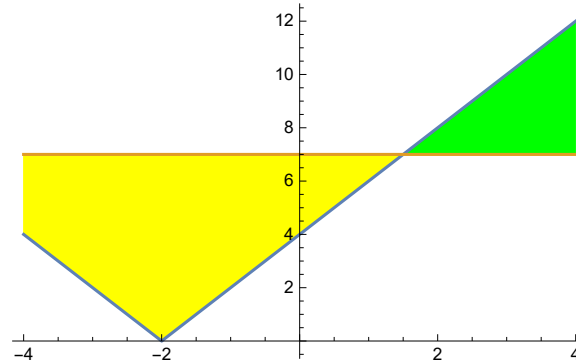
33.

$$x < -\frac{4}{3} \vee x > 2$$



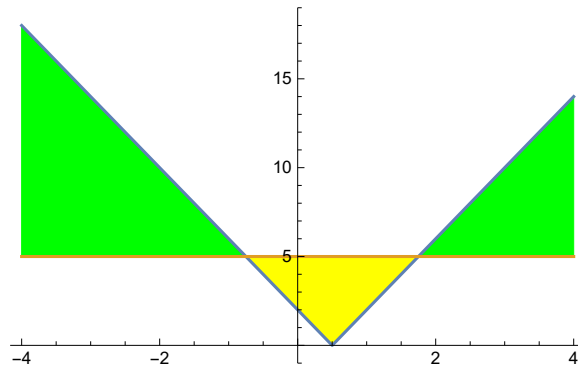
34.

$$x < -\frac{11}{2} \vee x > \frac{3}{2}$$



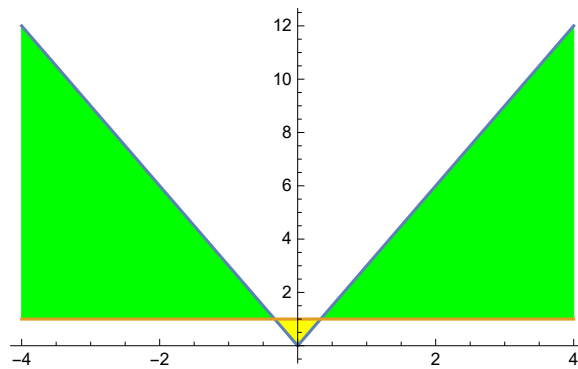
35.

$$x < -\frac{3}{4} \vee x > \frac{7}{4}$$



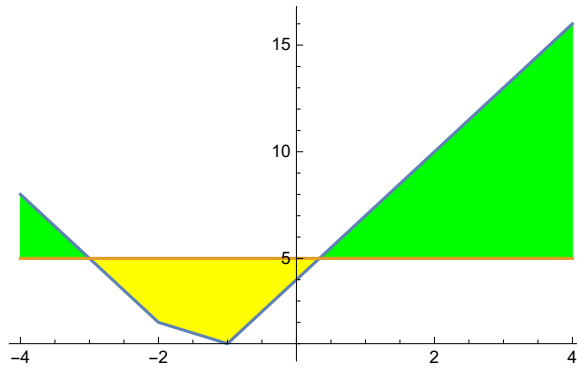
36.

$$x < -\frac{1}{3} \vee x > \frac{1}{3}$$



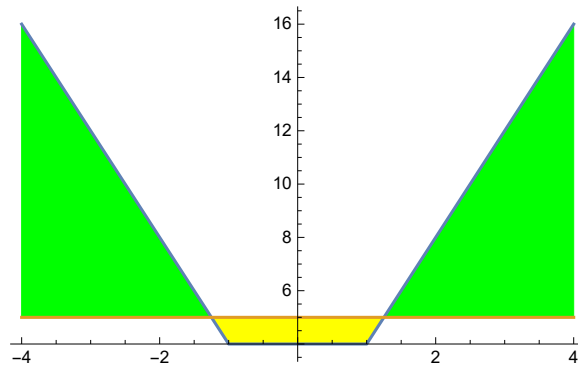
37.

$$x < -3 \vee x > \frac{1}{3}$$



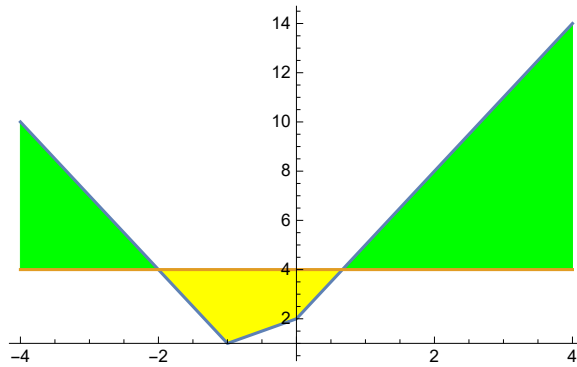
38.

$$x < -\frac{5}{4} \vee x > \frac{5}{4}$$



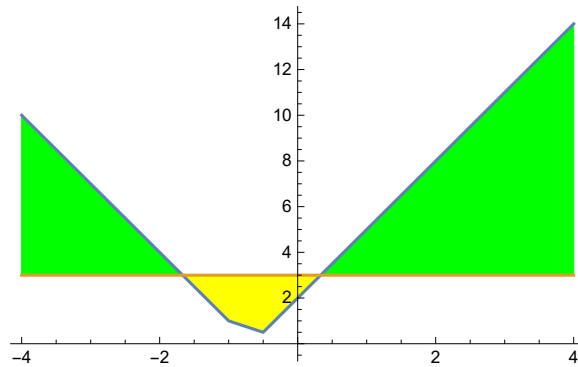
39.

$$x < -2 \vee x > \frac{2}{3}$$



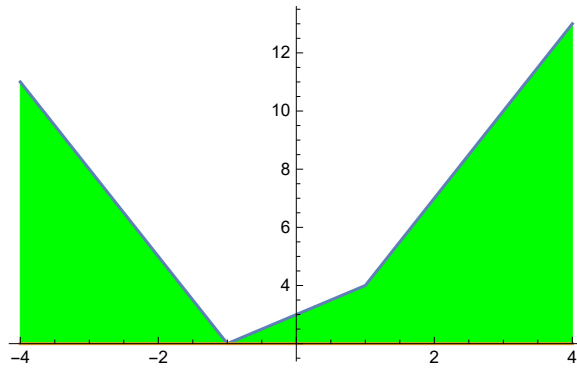
40.

$$x < -\frac{5}{3} \vee x > \frac{1}{3}$$



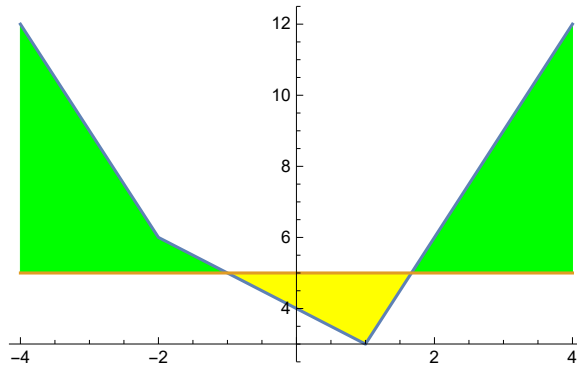
41.

$$x < -1 \vee x > -1$$



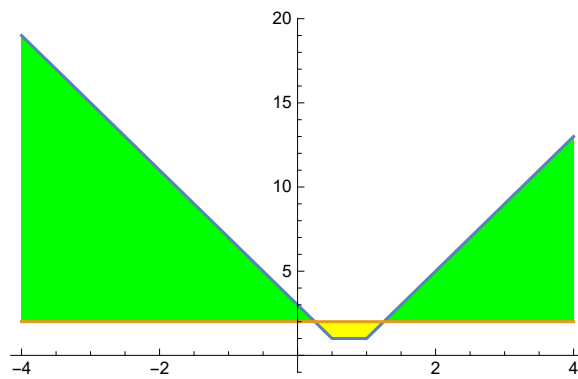
42.

$$x < -1 \vee x > \frac{5}{3}$$



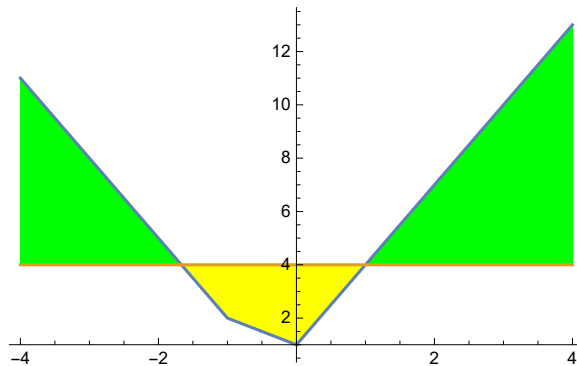
43.

$$x < \frac{1}{4} \vee x > \frac{5}{4}$$



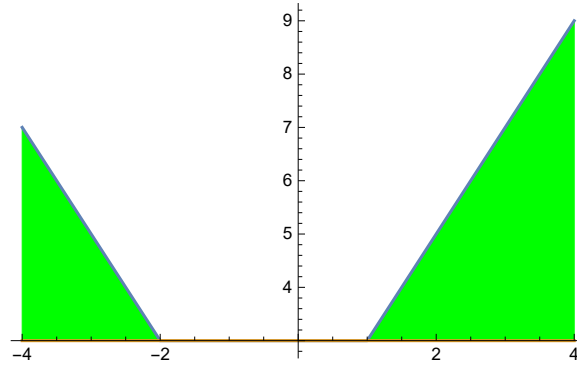
44.

$$x < -\frac{5}{3} \vee x > 1$$



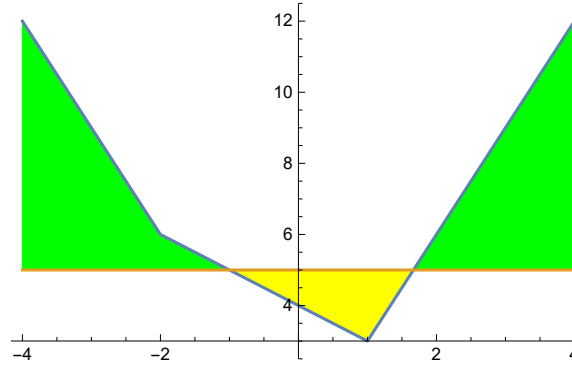
45.

$$x < -2 \vee x > 1$$



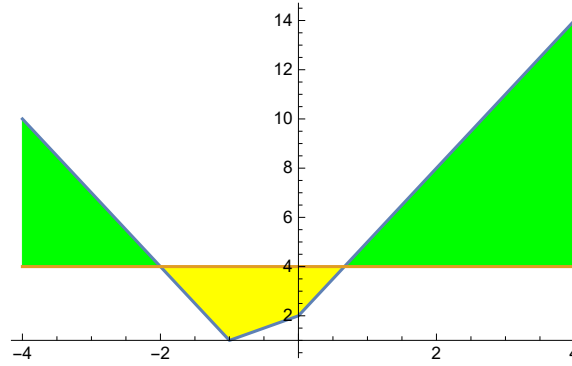
46.

$$x < -1 \vee x > \frac{5}{3}$$



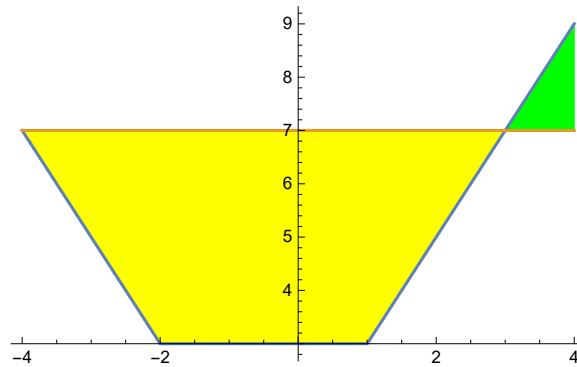
47.

$$x < -2 \vee x > \frac{2}{3}$$



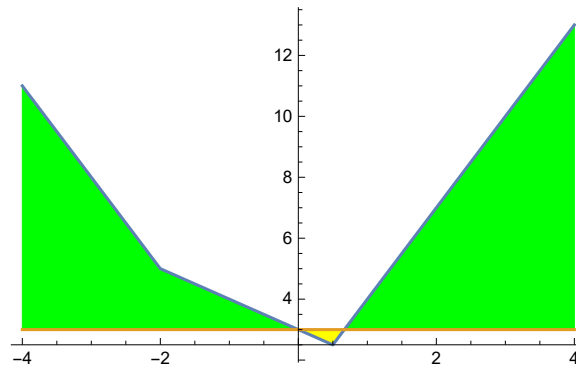
48.

$$x < -4 \vee x > 3$$



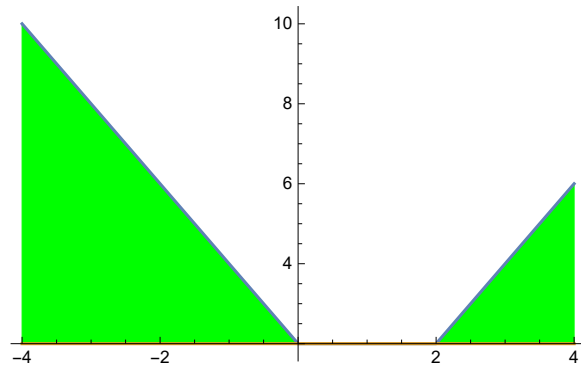
49.

$$x < 0 \vee x > \frac{2}{3}$$



50.

$$x < 0 \vee x > 2$$



Referenca:

Izidor Hafner Inequalities and Equations with Absolute Values

<http://demonstrations.wolfram.com/InequalitiesAndEquationsWithAbsoluteValues/Wolfram>

Demonstrations Project

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