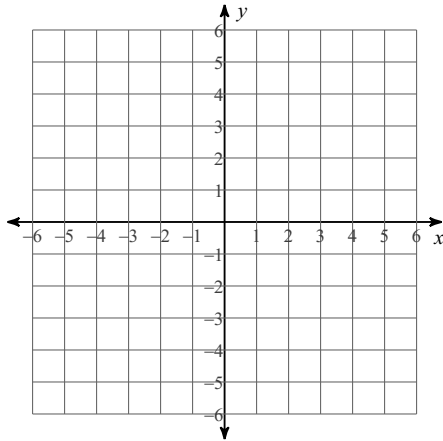


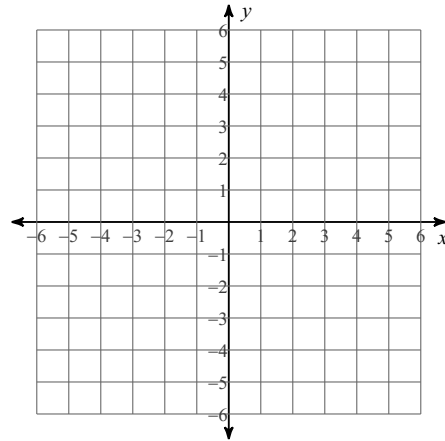
2.1 Homework

Graph each equation.

1) $y = -|x + 1| + 2$



2) $y = |x - 3| + 1$



Solve each equation, then plot/graph the solution set on a number line.

3) $|m + 4| = 10$

4) $|2x| = 10$

5) $|-8x - 3| = 53$

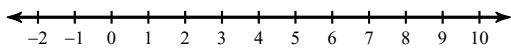
6) $|-9n - 6| = 75$

$$7) 2|6 + 4m| = 12$$

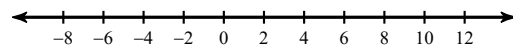
$$8) -4 + |2 - 5n| = -7$$

Solve each inequality and graph its solution.

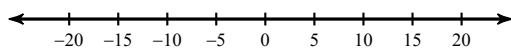
$$9) |n - 4| \leq 4$$



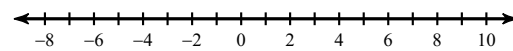
$$10) |-1 + n| \leq 9$$



$$11) \left| \frac{k}{6} \right| \geq 3$$

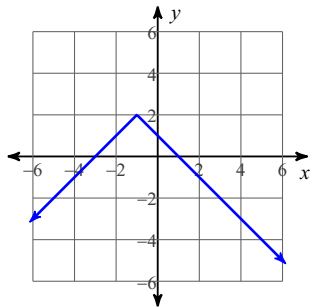


$$12) |-8a| \geq 40$$

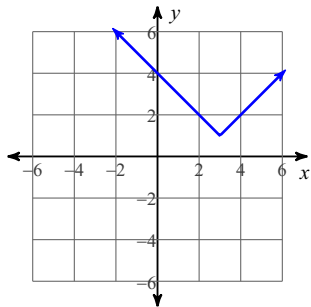


Answers to 2.1 Homework

1)



2)



3) $\{6, -14\}$

4) $\{5, -5\}$

5) $\left\{-7, \frac{25}{4}\right\}$

6) $\left\{-9, \frac{23}{3}\right\}$

7) $\{0, -3\}$

8) No solution.

9) $0 \leq n \leq 8$:

10) $-8 \leq n \leq 10$:

11) $k \geq 18$ or $k \leq -18$:

12) $a \leq -5$ or $a \geq 5$: