

OBJECTIVE: To solve and graph absolute value inequalities

Solve each equation. Then, graph your solution.

1. $|-4x-5|+3 < 9$

2. $|x-5| \geq 7$



3. $3|5m-6|-8 \leq 13$

4. $|4c+5| \geq 7$



5. $3|6-2x| > 12$

6. $3|2x+1|+2 \leq 17$



$$7. |2d+8|>3$$

$$8. 2|3x-7|+5<11$$



Jumbled Answers

$$c \geq \frac{1}{2} \text{ or } c \leq -3$$

$$d > -\frac{5}{2} \text{ or } d < -\frac{11}{2}$$

$$x < 1 \text{ or } x > 5$$

$$x > -\frac{11}{4} \text{ and } x < \frac{1}{4}$$

$$x \leq 3 \text{ and } x \geq -8$$

$$x < \frac{10}{3} \text{ and } x > \frac{4}{3}$$

$$m \leq \frac{13}{5} \text{ and } m \geq -\frac{1}{5}$$

$$x \geq 12 \text{ or } x \leq -2$$