

Mission 5 Quiz: Simply type the answers in the notes section of the assignment dropbox

1. **Solve the inequality. Express your answer using interval notation.** $|x - 2| + 3 \leq 8$

- a. $[3, 8]$
- b. $[-3, 7]$
- c. $(-\infty, -3)$ or $(7, \infty)$
- d. No solution

2. **Solve the equation.** $|x| + 10 = 5$

- a. $\{5, -5\}$
- b. $\{5\}$
- c. $\{-5\}$
- d. No solution

3. **Solve the equation.** $\left| \frac{4x + 12}{3} \right| = 4$

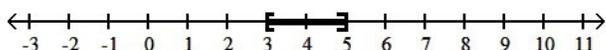
- a. $\{-6, 6\}$
- b. $\{6, 0\}$
- c. $\{-6, 0\}$
- d. No solution

4. **Solve the equation.** $|2x + 3| + 3 = 7$

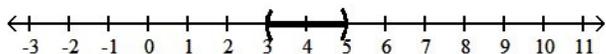
- a. $\left\{-\frac{1}{2}, \frac{7}{2}\right\}$
- b. $\left\{\frac{1}{2}, -\frac{7}{2}\right\}$
- c. $\left\{\frac{1}{3}, -\frac{7}{3}\right\}$
- d. No solution

5. **Solve the inequality, graph, and put in interval notation** $-12 \leq -3x + 3 \leq -6$

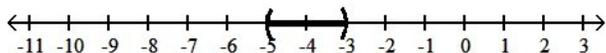
- a. $[3, 5]$



- b. $(3, 5)$



- c. $(-5, -3)$



- d. $[-5, -3]$

