Name: _____ **Problem Set Video #2**

Solve the inequality. ***Then graph the solution.***

1. $-x \geq 3x - 10$ ←----------→

2. $2m + 3 < 5$ **OR** $4m > 12$ ←----------→

3. $-13 < -5x - 3 \leq 7$ ←----------→

4. Solve the equation. $|5 + 2j| = 9$

5. Solve the equation $3|2x + 8| = -15$

Solve the absolute value inequality. Then graph the solution.

6. $|y + 6| \leq 10$ ←----------→

7. $|7 - 2r| > 19$ ←----------→

8. $4\left|\frac{2}{3}c + 2\right| < 64$ ←----------→

9. $3|\frac{1}{4}z - 5| - 8 < 13$ ←----------→

10. Solve each inequality and graph its solution.

a) $7|x + 2| - 1 \geq 27$

b) $5x + 2 \leq -3 \text{ or } 1 - x < 3x - 7$

c) $-2 \leq \frac{1}{5}x - 2 \leq 3$