U1A L10 Absolute Value Inequalities **Practice** Name: _____ HR: _____

Solve the following absolute value inequalities or equations and graph the solutions.

1. $|x| < 5$

2. $|x| > 7$

3. $|x| \leq 0$

4. $|x - 3| \leq 4$

5. $|x + 2| \geq 6$

6. $|2x| \leq 10$

7. $3|x - 2| > 9$

8. $2|x - 1| + 3 \leq 11$

9. $-4|x+2| > -12$

10. $5 - |2x-1| \geq 0$

11. $\frac{1}{2}|x-6| < 4$

12. $|3x-2|+1 \geq 2x+5$

13. $|x-4| = 7$

14. $2|x+3|+5 = 15$

15. If $-|3-3a| = -12$ which of the following could be the value of a?

A. 5 B. 4 C. 3 D. 2 E. 1

16. If $|2x-5| < 7$, which one of the following could be the value of x?

A. -2 B. 7 C. 4 D. 10 E. 12

17. Which of the following is NOT a solution to $-3 < 2x+1 \leq 7$

A. 0 B. 2. C. -1. D. 3 E. -5