

## SM2-A HW #7-5 (Review)

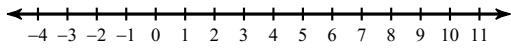
Date \_\_\_\_\_ Period \_\_\_\_\_

**Solve each equation.**

1)  $|n - 10| - 6 = 6$

**Solve each inequality and graph its solution.**

2)  $|n - 4| \leq 5$

**Solve each equation.**

3)  $-22 = 2k + 8 - 7k$

4)  $22 = -5n - 6n$

5)  $-100 = 4(5 - 5x)$

6)  $191 = -4 - 5(-4 - 7x)$

**Find the zeroes.**

7)  $y = x^2 - 6x - 16$

8)  $y = x^2 - x - 12$

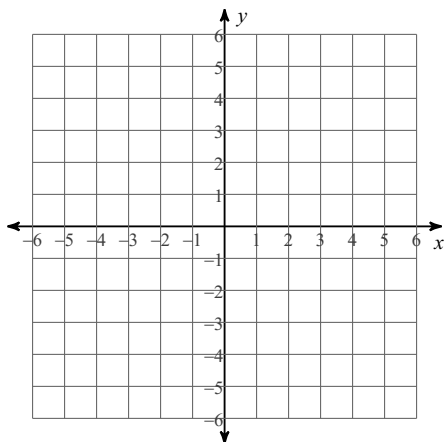
**Solve each equation by taking square roots.**

9)  $x^2 + 7 = -12$

10)  $x^2 + 1 = -8$

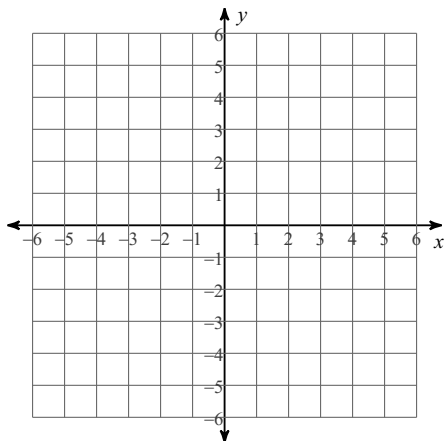
Graph each equation.

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



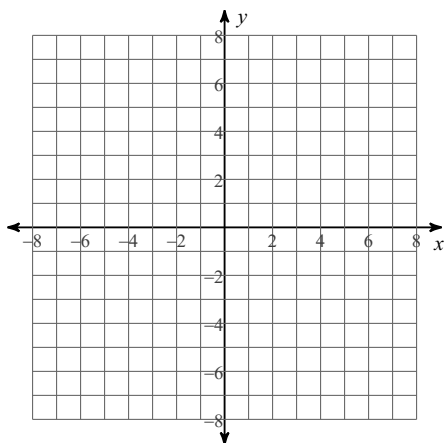
Sketch the graph of each line.

12)  $x + 2y = 2$



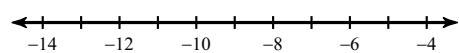
Identify the vertex and axis of symmetry of each. Then sketch the graph.

13)  $y = (x - 5)^2 - 2$



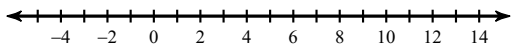
Solve each inequality and graph its solution.

14)  $-8(5 - 2p) \leq -152$



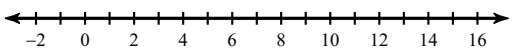
Solve each compound inequality and graph its solution.

15)  $r + 9 < 8$  or  $r - 3 > 6$



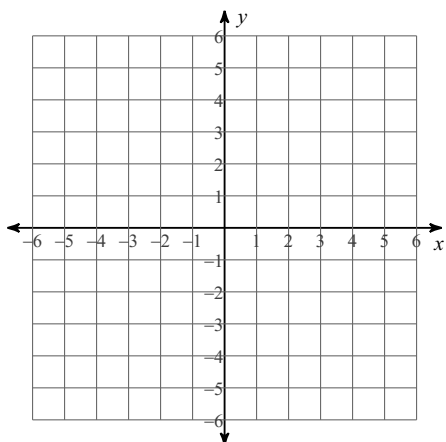
Solve each inequality and graph its solution.

16)  $|b - 7| \leq 8$



Sketch the graph of each linear inequality.

17)  $y < 2x - 1$



Sketch the solution to each system of inequalities.

18)  $y \geq x + 3$

$$y \leq -\frac{3}{2}x - 2$$

