

## Factoring and Graphing Review

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

**Factor each completely.**

1)  $6k^2 - 108k + 480$

2)  $4k^2 + 44k + 96$

3)  $x^2 + 15x + 50$

4)  $v^2 + 14v + 45$

5)  $2x^2 - 9x - 18$

6)  $7x^2 - 4x - 20$

7)  $7r^2 + 68r + 45$

8)  $5x^2 + x - 6$

9)  $10x^2 - 75x + 35$

10)  $16n^2 - 25$

11)  $n^2 - 16$

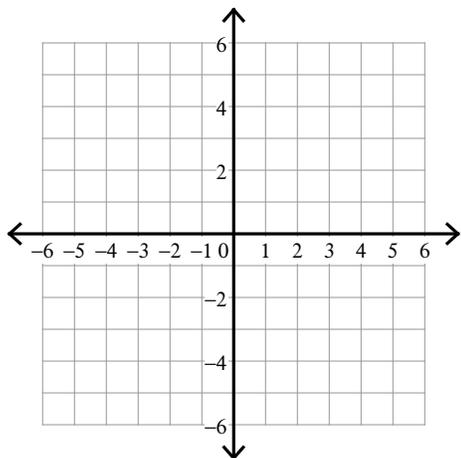
12)  $9r^2 - 4$

13)  $25k^2 - 1$

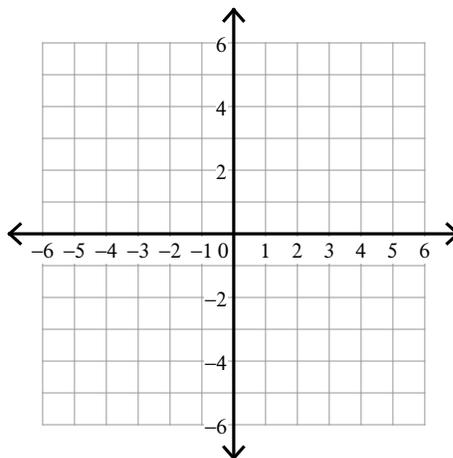
14)  $25x^2 + 30x + 9$

Sketch the graph of each linear inequality.

15)  $y \geq 2x - 3$

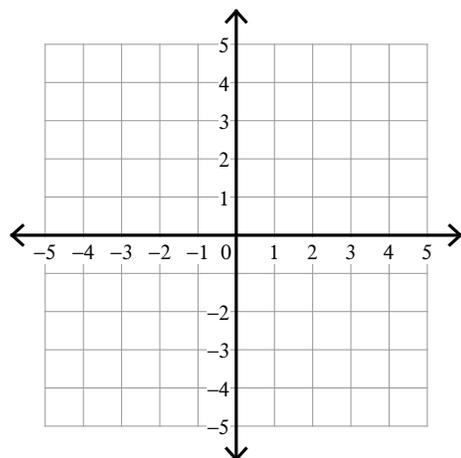


16)  $y \geq 0$



Sketch the solution to each system of inequalities.

17)  $y \leq -5x + 2$   
 $y > -x - 2$



18)  $y \geq \frac{1}{3}x - 2$   
 $y \leq \frac{5}{3}x + 2$

