

Solve each quadratic inequality algebraically, then graph the solution on a number line.

1.  $x^2 - 7x - 18 < 0$

2.  $x^2 + 2x \geq 15$

3.  $5x^2 + 6 \leq 13x$

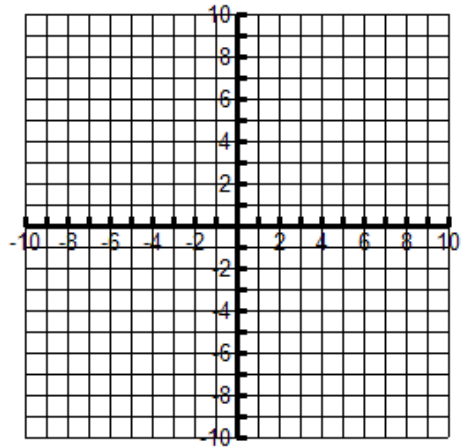
Graph each quadratic inequality, using a solid or dashed boundary line and shading the half-plane of the inequality.

4.  $y \leq x^2 - 2x - 8$

Vertex \_\_\_\_\_

x-intercepts \_\_\_\_\_

y-intercept \_\_\_\_\_

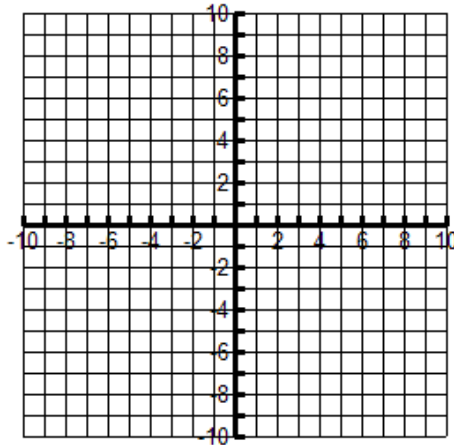


5.  $y > -x^2 - 4x - 3$

Vertex \_\_\_\_\_

x-intercepts \_\_\_\_\_

y-intercept \_\_\_\_\_



6.  $y < x^2 + 4x - 5$

Vertex \_\_\_\_\_

x-intercepts \_\_\_\_\_

y-intercept \_\_\_\_\_

