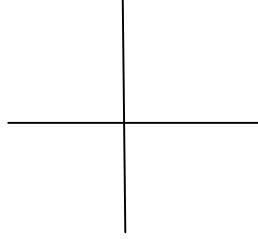


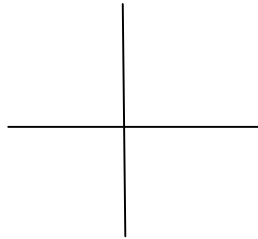
Solve each equation. If there is a set of axes, sketch the graph using the x, y – intercepts.

1.  $x^2 - 4x - 21 = 0$



5.  $x^2 + 8x = -15$

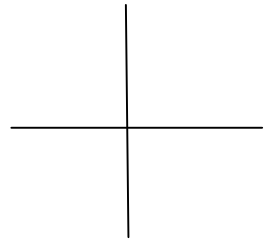
2.  $-x^2 + 25 = 0$



6.  $12x^2 + x = 1$

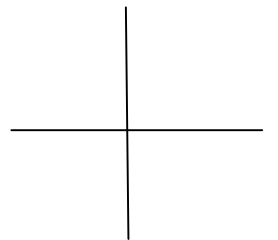
3.  $6x^2 + 17x = -5$

7.  $3x^2 - 12x = 0$



4.  $3x^2 + 19x - 40 = 0$

8.  $-12x^2 + 17x = 6$



Solve each inequality. (Factor to find the x-intercepts. Sketch a number line. Test a point inside the interval to decide which interval is the solution.)

9.  $x^2 - 3x - 10 < 0$

10.  $x^2 - 7x > 0$

11.  $x^2 - 18x + 81 \leq 0$

12.  $y = -2(x + 3)(x - 1)$

Vertex: \_\_\_\_\_

Axis of Symmetry: \_\_\_\_\_

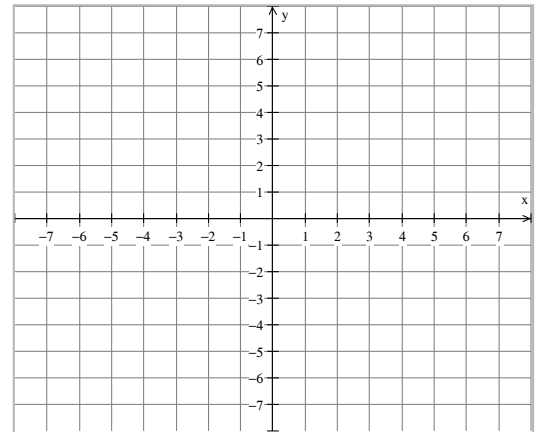
Max or Min Value: \_\_\_\_\_

Domain: \_\_\_\_\_

Range: \_\_\_\_\_

Roots: \_\_\_\_\_

x	y



13.  $y = -2x^2 + 4x$

Vertex: \_\_\_\_\_

Axis of Symmetry: \_\_\_\_\_

Max or Min Value: \_\_\_\_\_

Domain: \_\_\_\_\_

Range: \_\_\_\_\_

Roots: \_\_\_\_\_

x	y

