



## GRAPHING QUADRATIC FUNCTIONS FACTORED FORM WORKSHEET #2

**Directions:** Answer the questions below and sketch the graph of each function.

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

Opens Up or Down? \_\_\_\_\_ Is the vertex a Max or Min? \_\_\_\_\_

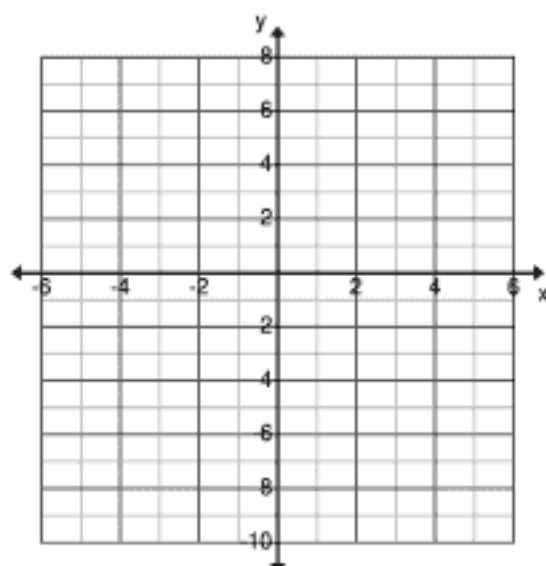
x-intercepts: \_\_\_\_\_

Axis of symmetry is  $x =$  \_\_\_\_\_

Vertex: (\_\_\_\_\_, \_\_\_\_\_)

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

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



2.  $y = -\frac{1}{2}(x - 4)(x - 8)$

Opens Up or Down? \_\_\_\_\_ Is the vertex a Max or Min? \_\_\_\_\_

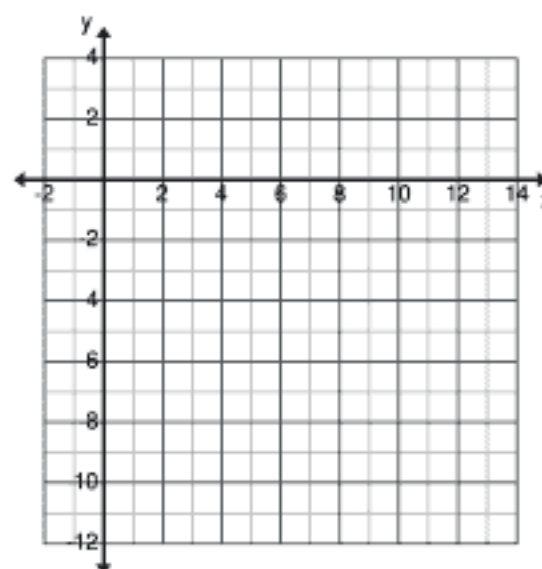
x-intercepts: \_\_\_\_\_

Axis of symmetry is  $x =$  \_\_\_\_\_

Vertex: (\_\_\_\_\_, \_\_\_\_\_)

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

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



3.  $y = 3x^2 + 12x$

Factor: \_\_\_\_\_

Opens Up or Down? \_\_\_\_\_ Is the vertex a Max or Min? \_\_\_\_\_

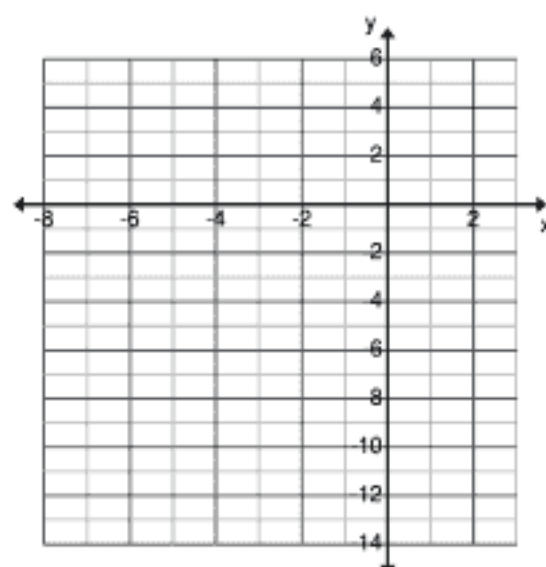
y-intercept: \_\_\_\_\_

Axis of symmetry is  $x =$  \_\_\_\_\_

Vertex: (\_\_\_\_\_, \_\_\_\_\_)

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

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



4.  $y = x^2 + 4x - 12$

Factor: \_\_\_\_\_

Opens Up or Down? \_\_\_\_\_ Is the vertex a Max or Min? \_\_\_\_\_

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

Axis of symmetry is  $x =$  \_\_\_\_\_

Vertex: (\_\_\_\_\_, \_\_\_\_\_)

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

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

