

Graph each quadratic. Make sure to label all key components.

1.  $f(x) = (x - 3)(x + 5)$

Maximum or Minimum

Vertex \_\_\_\_\_

y – intercept \_\_\_\_\_

AOS \_\_\_\_\_

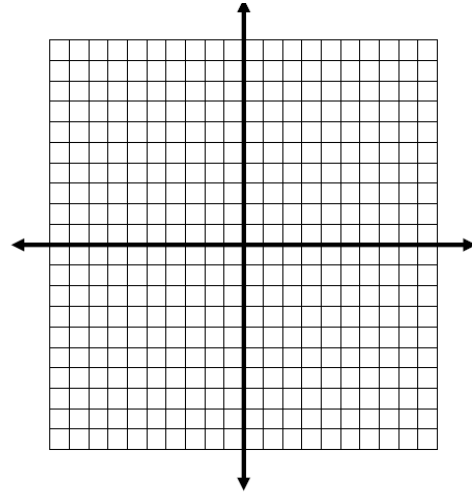
Domain \_\_\_\_\_

x – intercepts \_\_\_\_\_

Range \_\_\_\_\_

Intervals of Increasing

Intervals of Decreasing



2.  $f(x) = x^2 + 4x - 5$

Maximum or Minimum

Vertex \_\_\_\_\_

y – intercept \_\_\_\_\_

AOS \_\_\_\_\_

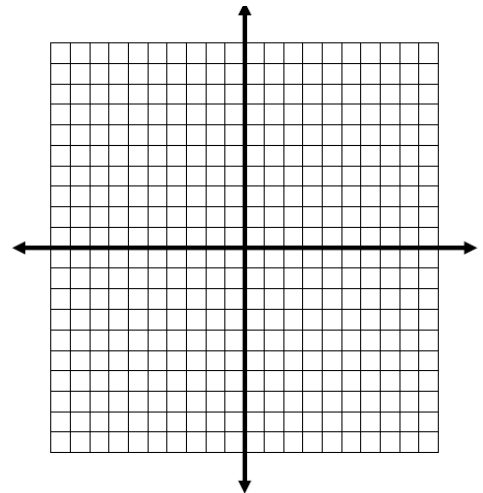
Domain \_\_\_\_\_

x – intercepts \_\_\_\_\_

Range \_\_\_\_\_

Intervals of Increasing

Intervals of Decreasing



3.  $f(x) = -(x + 2)^2 + 3$

Maximum or Minimum

Vertex \_\_\_\_\_

AOS \_\_\_\_\_

x – intercepts \_\_\_\_\_

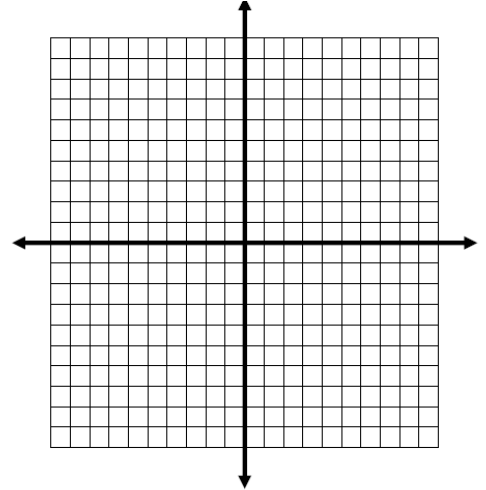
y – intercept \_\_\_\_\_

Domain \_\_\_\_\_

Range \_\_\_\_\_

Intervals of Increasing

Intervals of Decreasing



4.  $f(x) = -2(x - 2)(x - 2)$

Maximum or Minimum

Vertex \_\_\_\_\_

AOS \_\_\_\_\_

x – intercepts \_\_\_\_\_

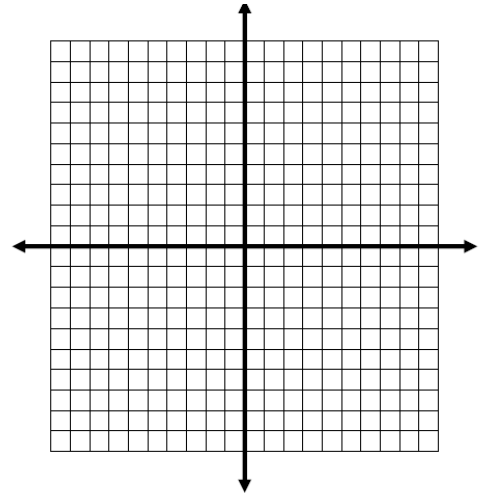
y – intercept \_\_\_\_\_

Domain \_\_\_\_\_

Range \_\_\_\_\_

Intervals of Increasing

Intervals of Decreasing



Math 2

Graphing Quadratics

Name \_\_\_\_\_

Date \_\_\_\_\_ Per \_\_\_\_

Graph each quadratic. Make sure to label all key components.

5.  $f(x) = -3x^2 + 6x - 4$

Maximum or Minimum \_\_\_\_\_

Vertex \_\_\_\_\_

AOS \_\_\_\_\_

x – intercepts \_\_\_\_\_

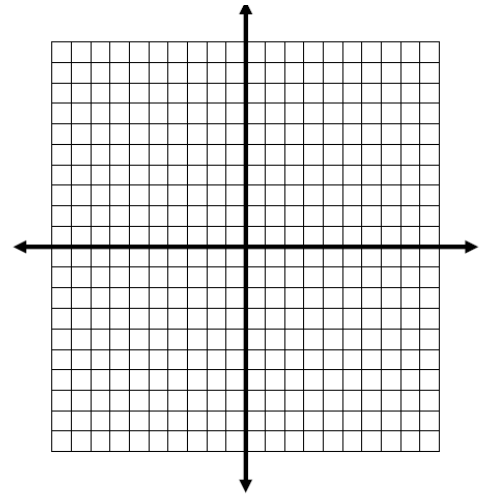
y – intercept \_\_\_\_\_

Domain \_\_\_\_\_

Range \_\_\_\_\_

Intervals of Increasing \_\_\_\_\_

Intervals of Decreasing \_\_\_\_\_



6.  $f(x) = (2x + 1)(2x - 3)$

Maximum or Minimum \_\_\_\_\_

Vertex \_\_\_\_\_

AOS \_\_\_\_\_

x – intercepts \_\_\_\_\_

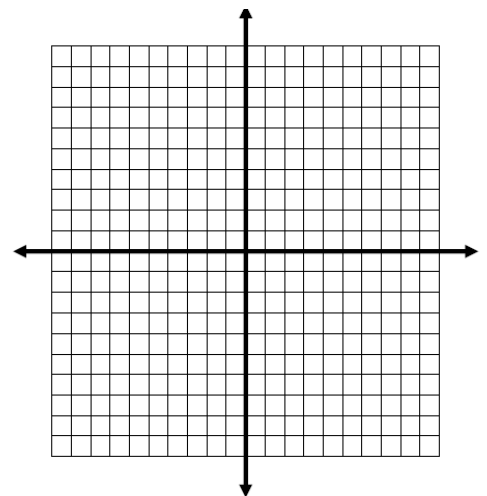
y – intercept \_\_\_\_\_

Domain \_\_\_\_\_

Range \_\_\_\_\_

Intervals of Increasing \_\_\_\_\_

Intervals of Decreasing \_\_\_\_\_



7.  $f(x) = 2(x - 1)^2 - 5$

Maximum or Minimum

Vertex \_\_\_\_\_

AOS \_\_\_\_\_

x – intercepts \_\_\_\_\_

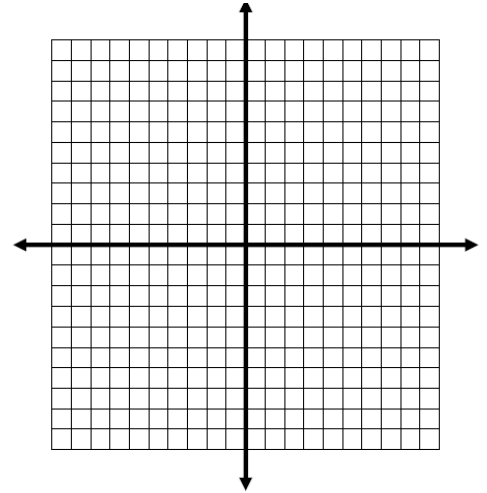
y – intercept \_\_\_\_\_

Domain \_\_\_\_\_

Range \_\_\_\_\_

Intervals of Increasing

Intervals of Decreasing



8.  $f(x) = x^2 + 6x + 9$

Maximum or Minimum

Vertex \_\_\_\_\_

AOS \_\_\_\_\_

x – intercepts \_\_\_\_\_

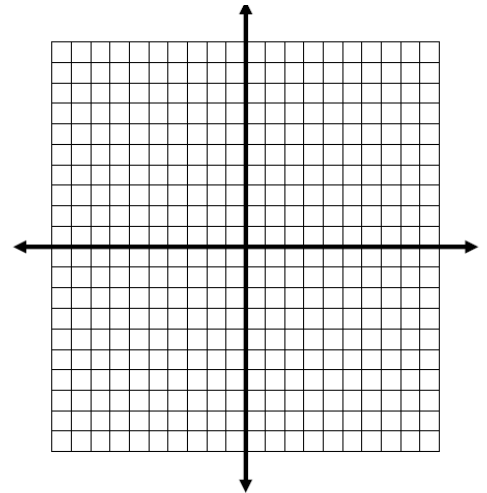
y – intercept \_\_\_\_\_

Domain \_\_\_\_\_

Range \_\_\_\_\_

Intervals of Increasing

Intervals of Decreasing



Graph each quadratic. Make sure to label all key components.

9.  $f(x) = -2(x - 2)(x + 4)$

Maximum or Minimum

Vertex \_\_\_\_\_

AOS \_\_\_\_\_

x – intercepts \_\_\_\_\_

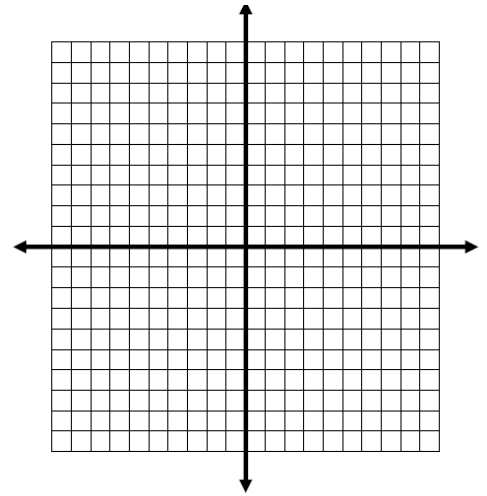
y – intercept \_\_\_\_\_

Domain \_\_\_\_\_

Range \_\_\_\_\_

Intervals of Increasing

Intervals of Decreasing



10.  $f(x) = x^2 - 9$

Maximum or Minimum

Vertex \_\_\_\_\_

AOS \_\_\_\_\_

x – intercepts \_\_\_\_\_

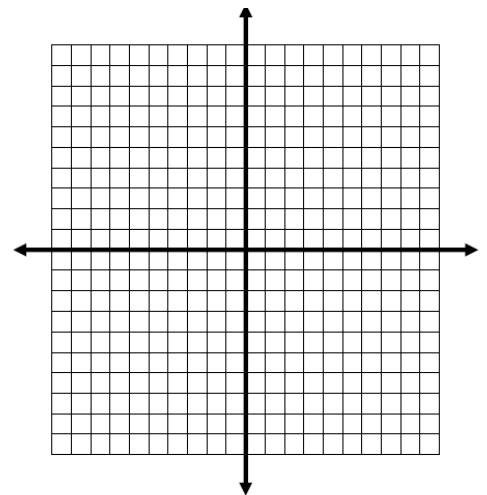
y – intercept \_\_\_\_\_

Domain \_\_\_\_\_

Range \_\_\_\_\_

Intervals of Increasing

Intervals of Decreasing



11.  $f(x) = \frac{1}{4}(x - 4)^2 - 8$

Maximum or Minimum

Vertex \_\_\_\_\_

AOS \_\_\_\_\_

x – intercepts \_\_\_\_\_

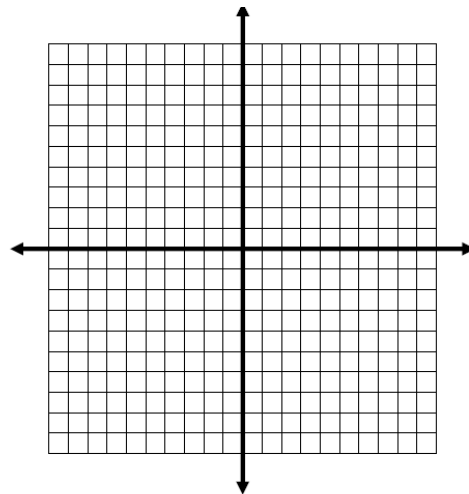
y – intercept \_\_\_\_\_

Domain \_\_\_\_\_

Range \_\_\_\_\_

Intervals of Increasing

Intervals of Decreasing



12.  $f(x) = \frac{1}{4}(x + 4)^2$

Maximum or Minimum

Vertex \_\_\_\_\_

AOS \_\_\_\_\_

x – intercepts \_\_\_\_\_

y – intercept \_\_\_\_\_

Domain \_\_\_\_\_

Range \_\_\_\_\_

Intervals of Increasing

Intervals of Decreasing

