

## Practice Graphing

Rewrite the following functions in standard form.

1.  $f(x) = (x - 3)(x + 4)$

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

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

Rewrite the following functions in vertex form.

4.  $f(x) = x^2 - 2x - 8$

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

6.  $f(x) = x^2 + 4x - 1$

Rewrite the following functions in intercept form.

7.  $f(x) = (x + 2)^2 - 9$

8.  $f(x) = x^2 - 3x - 18$

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

Graph and determine the characteristics of the following quadratics.

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

AOS: \_\_\_\_\_

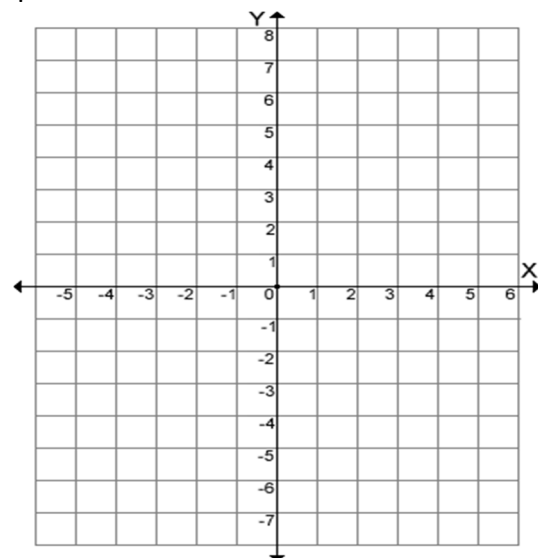
Vertex: \_\_\_\_\_

Y-Intercept: \_\_\_\_\_

Max/Min: \_\_\_\_\_

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

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



11.)  $f(x) = -x^2 + 2x + 1$

AOS: \_\_\_\_\_

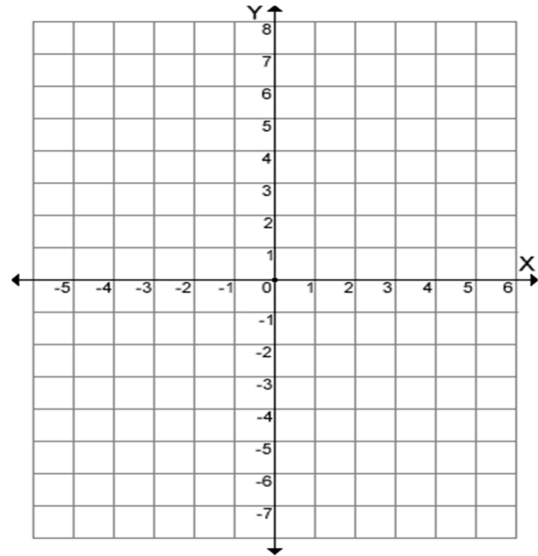
Vertex: \_\_\_\_\_

Y-Intercept: \_\_\_\_\_

Max/Min: \_\_\_\_\_

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

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



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

AOS: \_\_\_\_\_

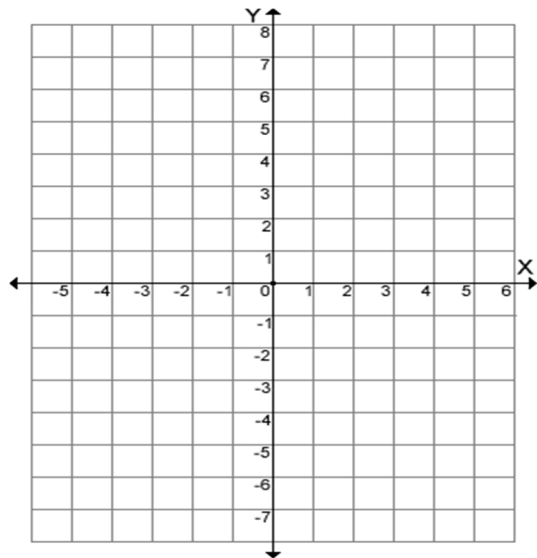
Vertex: \_\_\_\_\_

Y-Intercept: \_\_\_\_\_

Max/Min: \_\_\_\_\_

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

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



13.)  $f(x) = -2(x - 1)^2 + 4$

AOS: \_\_\_\_\_

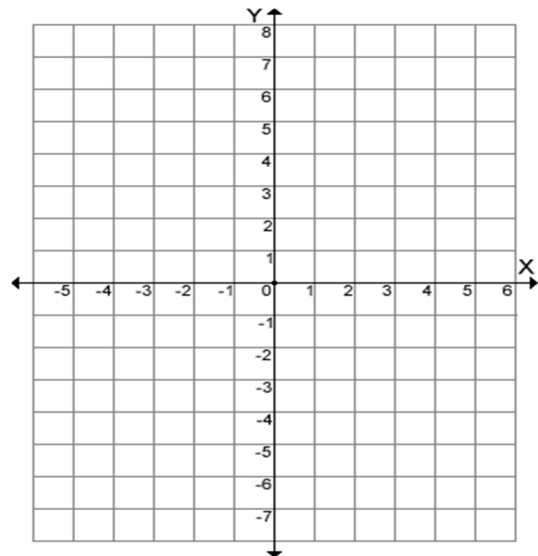
Vertex: \_\_\_\_\_

Y-Intercept: \_\_\_\_\_

Max/Min: \_\_\_\_\_

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

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



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

AOS: \_\_\_\_\_

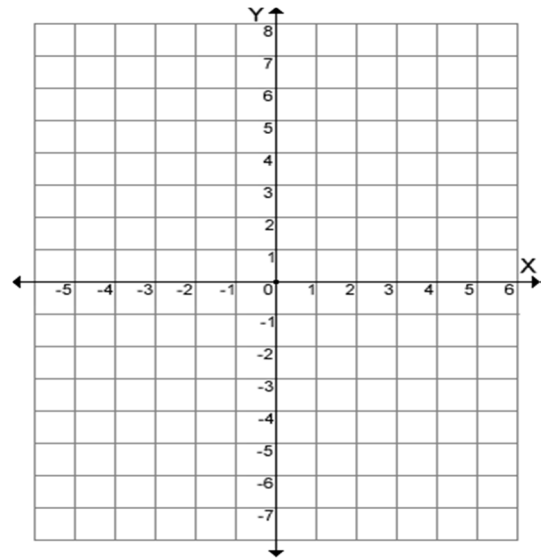
Vertex: \_\_\_\_\_

Y-Intercept: \_\_\_\_\_

Max/Min: \_\_\_\_\_

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

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



15.)  $f(x) = (x + 2)(x - 2)$

AOS: \_\_\_\_\_

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

Y-Intercept: \_\_\_\_\_

Max/Min: \_\_\_\_\_

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

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

