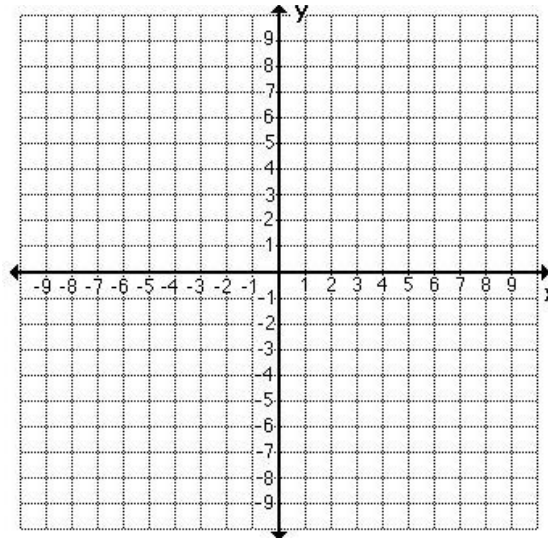


## UNIT 2 WORKSHEET 16 GRAPHING QUADRATIC FUNCTIONS

Complete the information for each of the following quadratic functions.

1)  $f(x) = -x^2 - 10x - 22$



**Vertex Form:**

**Opens:**

**Vertex or Key Point:**

**Y-Intercept:**

**X-Intercepts:**

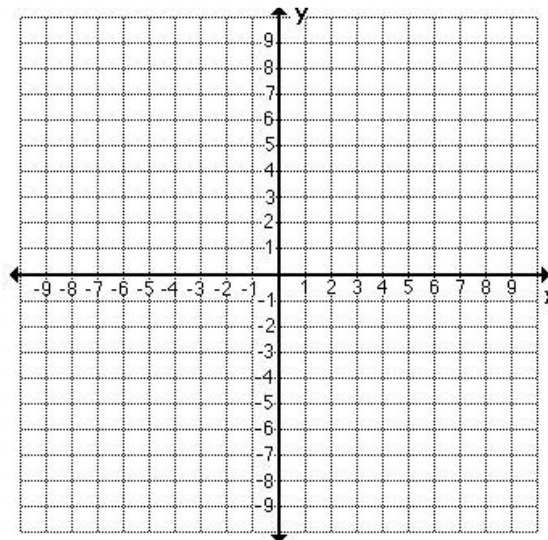
**Range:**

**Domain:**

**Axis of symmetry:**

**Maximum or Minimum value:**

2)  $f(x) = 2x^2 + 12x + 10$



**Vertex Form:**

**Opens:**

**Vertex or Key Point:**

**Y-Intercept:**

**X-Intercepts:**

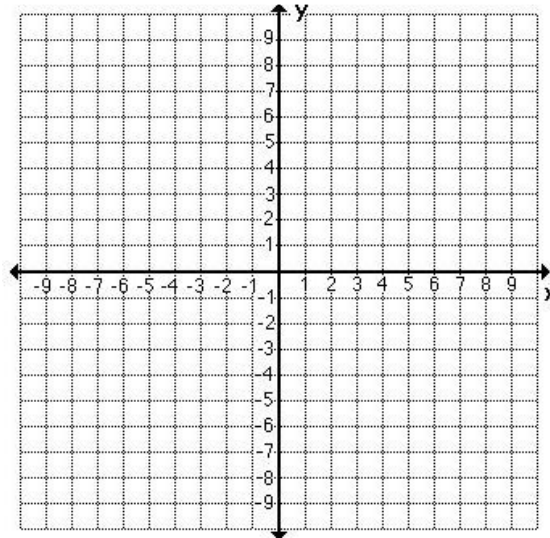
**Range:**

**Domain:**

**Axis of symmetry:**

**Maximum or Minimum value:**

$$3) f(x) = -\frac{1}{3}x^2 + \frac{10}{3}x - \frac{34}{3}$$



**Vertex Form:**

**Opens:**

**Vertex or Key Point:**

**Y-Intercept:**

**X-Intercepts:**

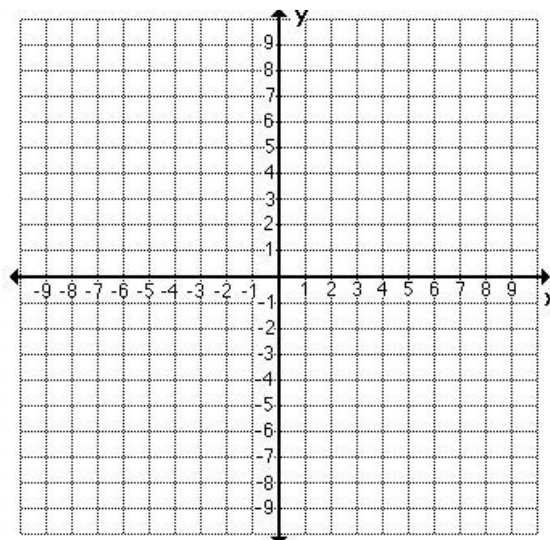
**Range:**

**Domain:**

**Axis of symmetry:**

**Maximum or Minimum value:**

$$4) f(x) = -3x^2 + 30x - 75$$



**Vertex Form:**

**Opens:**

**Vertex or Key Point:**

**Y-Intercept:**

**X-Intercepts:**

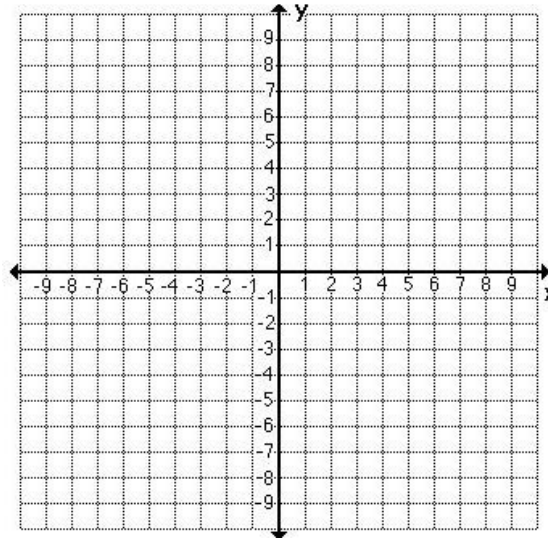
**Range:**

**Domain:**

**Axis of symmetry:**

**Maximum or Minimum value:**

5)  $f(x) = \frac{1}{4}x^2 - x - 3$



**Vertex Form:**

**Opens:**

**Vertex or Key Point:**

**Y-Intercept:**

**X-Intercepts:**

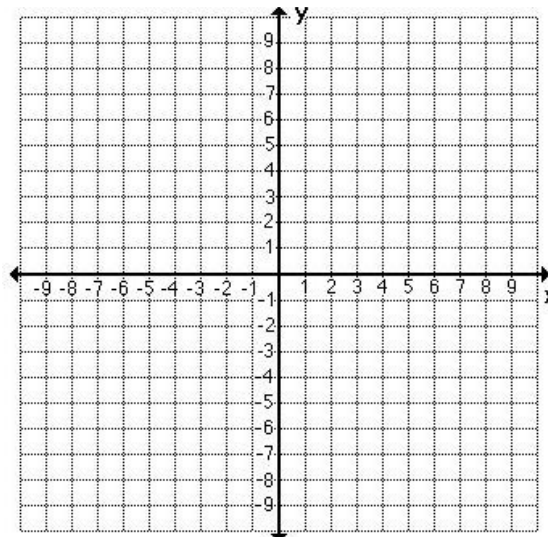
**Range:**

**Domain:**

**Axis of symmetry:**

**Maximum or Minimum value:**

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



**Vertex Form:**

**Opens:**

**Vertex or Key Point:**

**Y-Intercept:**

**X-Intercepts:**

**Range:**

**Domain:**

**Axis of symmetry:**

**Maximum or Minimum value:**