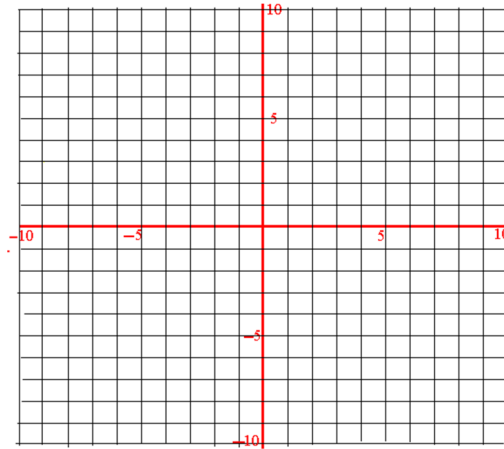


Name _____

Algebra II Practice Quiz 6.1-6.2

Answer the questions related to the quadratic equations. Use the vertex and 2 more points to graph the equations.

1. $y = -4x^2$



a = _____

b = _____

c = _____

Coefficient of x^2 : + -

Parabola opens: up down

Vertex: min max

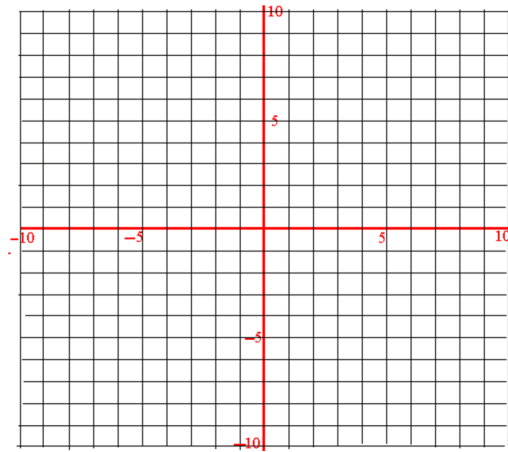
y- intercept: _____

Axis of Symmetry: $x =$ _____

Vertex: _____

Two more points _____

2. $y = x^2 - 7$



a = _____

b = _____

c = _____

Coefficient of x^2 : + -

Parabola opens: up down

Vertex: min max

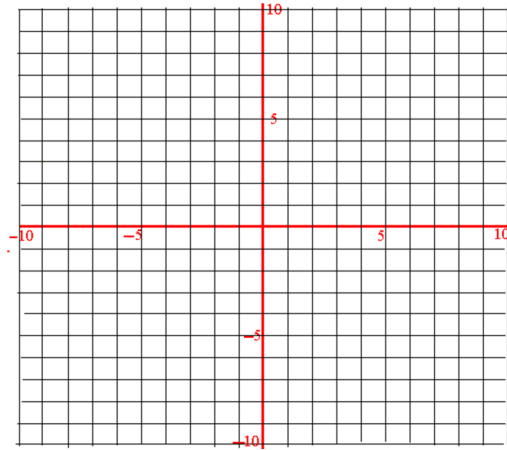
y- intercept: _____

Axis of Symmetry: $x =$ _____

Vertex: _____

Two more points _____

3. $y = x^2 + 8x + 12$



a = _____

b = _____

c = _____

Coefficient of x^2 : + -

Parabola opens: up down

Vertex: min max

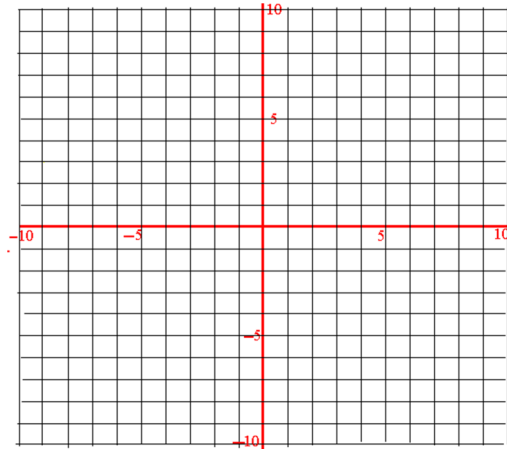
y- intercept: _____

Axis of Symmetry: $x =$ _____

Vertex: _____

Two more points _____

4. $y = -x^2 - 6x - 8$



a = _____

b = _____

c = _____

Coefficient of x^2 : + -

Parabola opens: up down

Vertex: min max

y- intercept: _____

Axis of Symmetry: $x =$ _____

Vertex: _____

Two more points _____

Solve each equation by graphing. Use your calculator.

5. $x^2 - 8x + 7 = 0$

6. $-x^2 + 9x - 14 = 0$

7. $3x^2 + 6x + 5 = 0$

8. $3x^2 = 15x$
