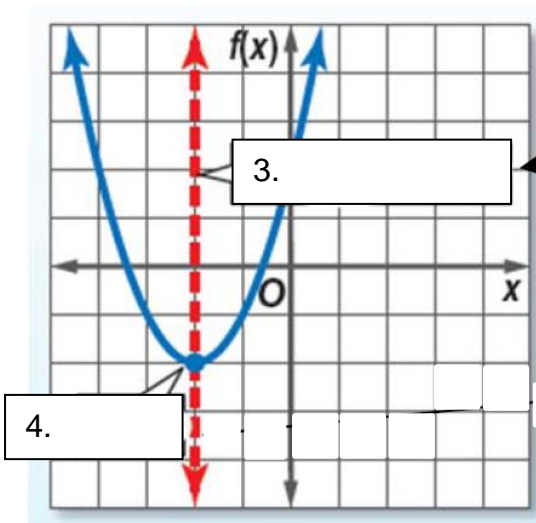


Review Graphing Quadratics Name _____

1. Standard form of a quadratic function is $y = \underline{\hspace{2cm}}$

2. The shape of a quadratic equation is called a _____



5. When the vertex is the highest point on the graph, we call that a _____.

6. When the vertex is the lowest point on the graph, we call that a _____.

7. The _____ of the quadratic function will give you the roots or solutions of the quadratic equation.

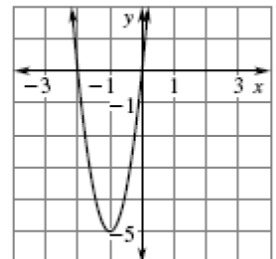
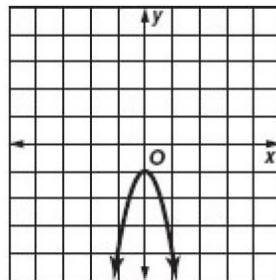
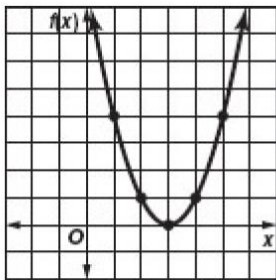
8. Solutions to quadratic equations are called _____.

Determine whether the quadratic functions have two real roots, one real root, or no real roots. If possible, list the zeros of the function.

9. Zero(s): _____

10. Zero(s): _____

11. Zero(s): _____



12. Given the graph, identify the following.

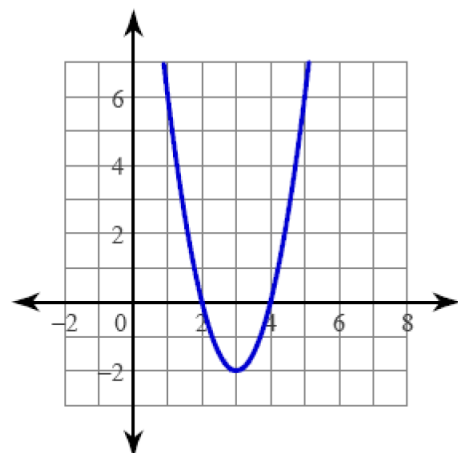
Axis of symmetry: _____

Vertex: _____

How many zeros: _____ which are: _____

Domain: _____

Range: _____



Graph the following quadratic functions by making a table of values. You need five points to graph the equation.

13. $y = x^2 - 2x - 3$

Identify the zeros/x-intercepts: _____ and _____

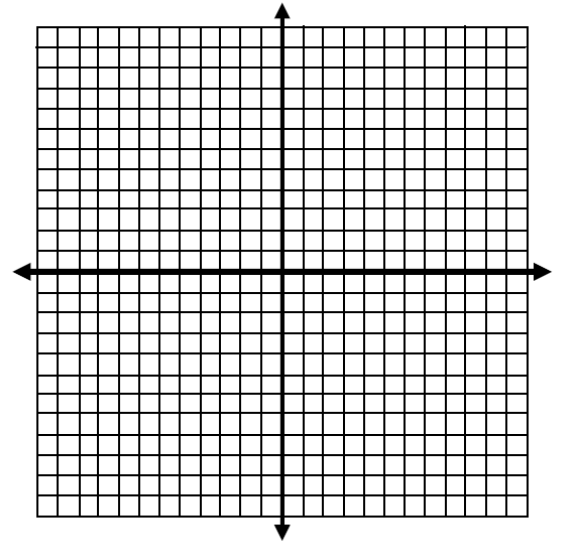
Does it have a minimum or maximum? _____

Axis of symmetry: _____ Vertex: _____

y-intercept: _____ Graph at least 5 points

Domain: _____ Range: _____

x	y



14. $y = -x^2 - 4x + 5$

Identify the zeros/x-intercepts: _____ and _____

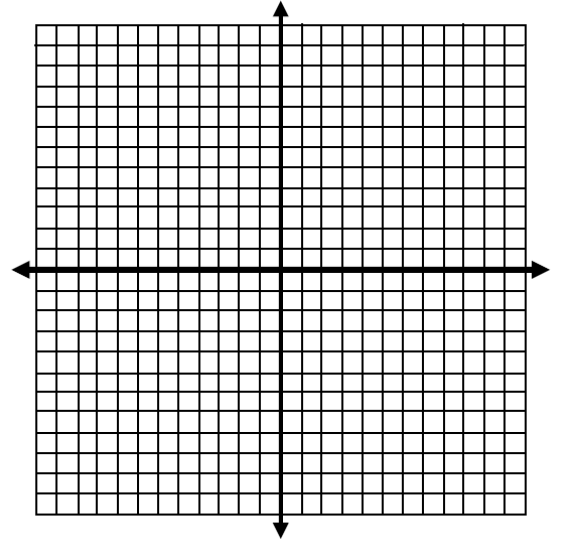
Does it have a minimum or maximum? _____

Axis of symmetry: _____ Vertex: _____

y-intercept: _____ Graph at least 5 points

Domain: _____ Range: _____

x	y



15. $y = 2x^2 - 5x - 12$

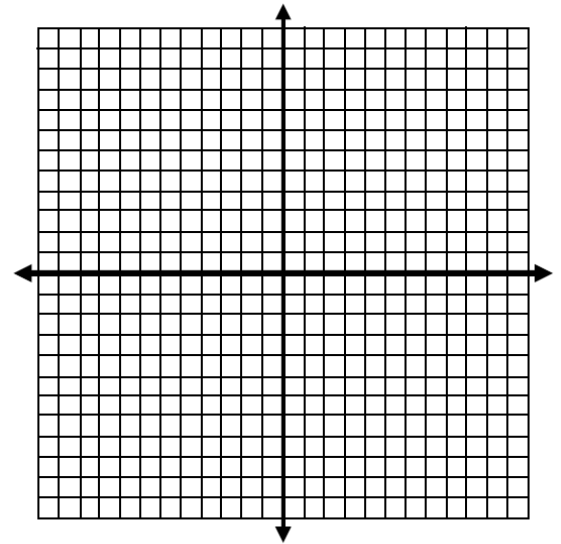
Identify the zeros/x-intercepts: _____ and _____

Does it have a minimum or maximum? _____

Axis of symmetry: _____ Vertex: _____

y-intercept: _____ Graph at least 5 points

Domain: _____ Range: _____



x	y

16. A bottlenose dolphin jumps out of the water. The path the dolphin travels can be modeled by $h = -0.2d^2 + 2d$, where h represents the height of the dolphin and d represents horizontal distance.

a. What is the maximum height the dolphin reaches?

b. How far did the dolphin jump?