

Graphing Quadratics Review Worksheet

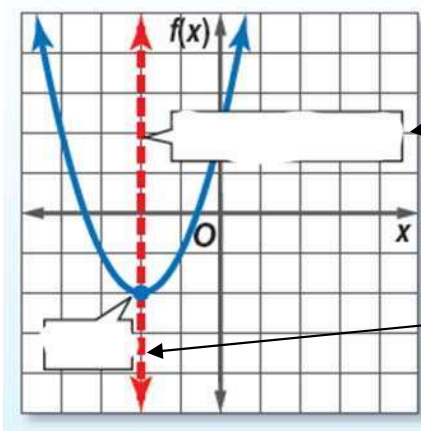
Name Key Mrs J.

Fill in each blank using the word bank.

vertex	minimum	axis of symmetry	x-intercepts
parabola	maximum	zeros/roots	$ax^2 + bx + c$

1. Standard form of a quadratic function is $y = \underline{ax^2 + bx + c}$

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



3. axis of symmetry

4. vertex

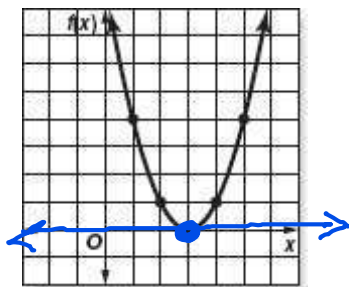
5. When the vertex is the highest point on the graph, we call that a maximum.

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

7. Our solutions are the x-intercepts (y=0).

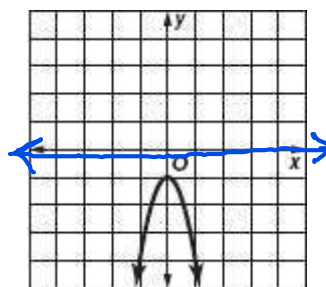
8. Solutions to quadratic equations are called Zeros or Roots of the function.

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



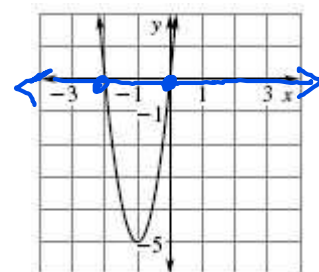
9. Number of roots: 1

Zero(s): (3, 0)
x=3



10. Number of roots: none

Zero(s): none



11. Number of roots: 2

Zero(s): (-2, 0), (0, 0)
x=-2
x=0