Characteristics of Parablola

Complete the following by dragging the corresponding word to correctly fill in the blanks.

1. The shape of a quadratic equation is called a _____
2. Factored form of a quadratic function is y = _____
3. When the vertex is the lowest on the graph, we call that a _____
4. Standard form of a quadratic function is y = _____
5. When the vertex is the highest on the graph, we call that a _____
6. The solutions to quadratic equations are called _____
7. The quadratic equation crosses the vertical axis at the _____
8. The graph opens up when the leading coefficient is _____
9. The graph reflects over the x-axis when the a value is _____
10. Vertex form of a quadratic function is y = _____

$ax^2 + bx + c$

$a(x - d)^2 + c$

$a(x - r)(x - s)$

Axis of symmetry

Maximum

Minimum

Negative

Parabola

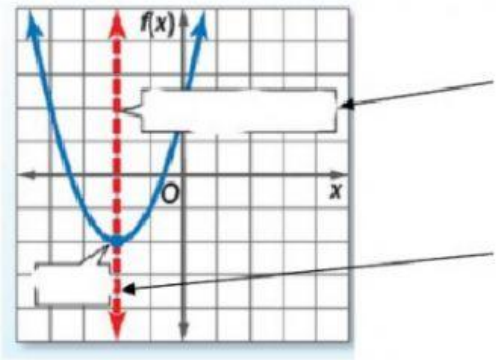
Positive

x-intercept

Vertex

y-intercept

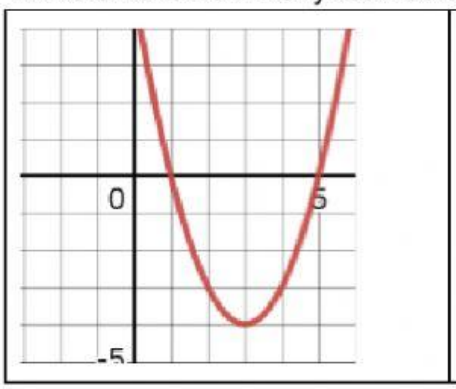
zeros/roots

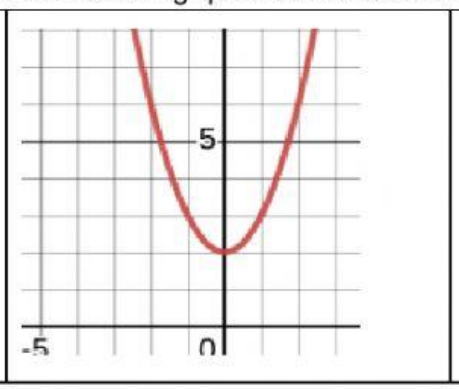


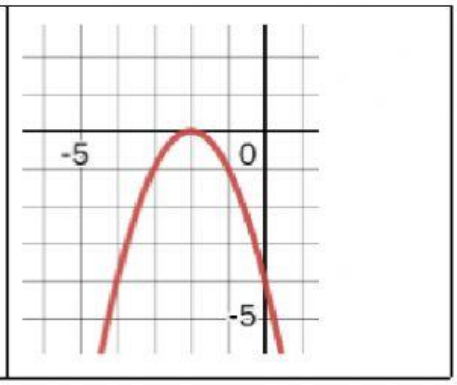
10. _____

11. _____

12. Determine how many real roots the following quadratic functions have and the actual roots:







# of roots:_____ # of roots:_____ # of roots:_____

Actual root(s)_____ Actual root(s)_____ Actual root(s)_____

LIVEWORKSHEETS