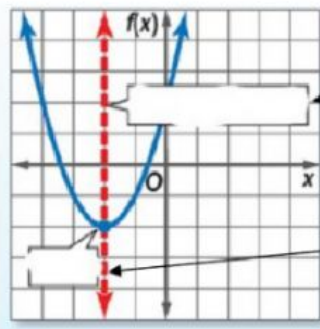# Characteristics of Parablola

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

1. The shape of a quadratic equation is called a _____ $ax^2 + bx + c$

2. Factored form of a quadratic function is y = _____

3. When the vertex is the lowest on the graph, we call that a _____ $a(x - d)^2 + c$

4. Standard form of a quadratic function is y = _____

5. When the vertex is the highest on the graph, we call that a _____ $a(x - r)(x - s)$

6. The solutions to quadratic equations are called _____   Axis of symmetry

7. The quadratic equation crosses the vertical axis at the _____   Maximum

8. The graph opens up when the leading coefficient is _____   Minimum

9. The graph reflects over the x-axis when the a value is _____   Negative

10. Vertex form of a quadratic function is y = _____   Parabola
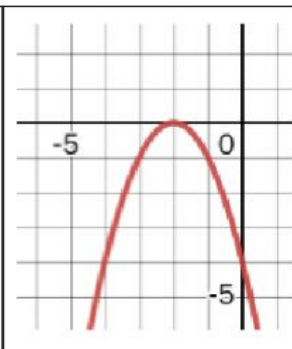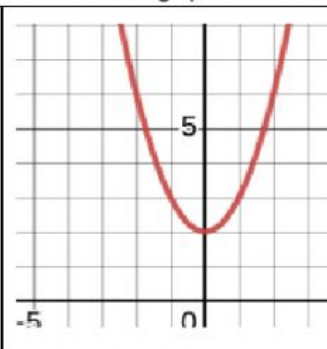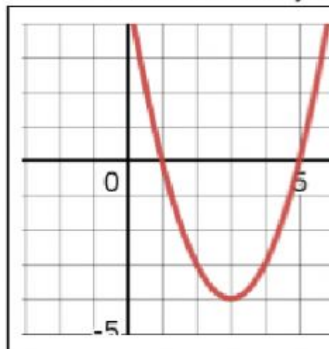
Positive

10. _____   x-intercept

Vertex

y-intercept

11. _____   zeros/roots

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)_____