Characteristics of Parablola
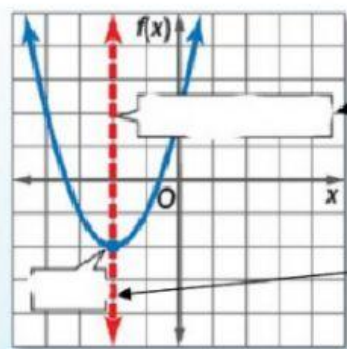**Complete the following by dragging the corresponding word to correctly fill in the blanks.**

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

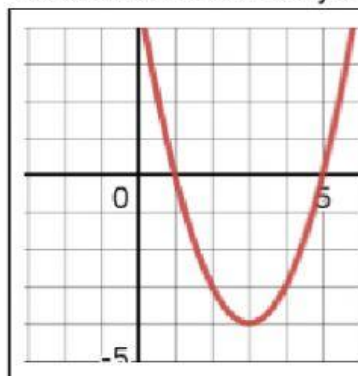Vertex

y-intercept

zeros/roots

10. _____

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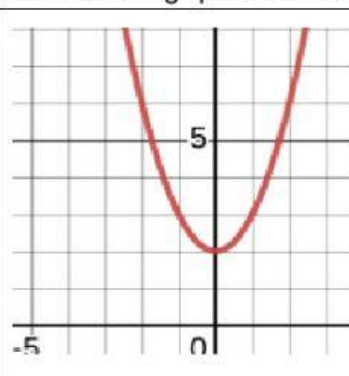
12. Determine how many real roots the following quadratic functions have and the actual roots:
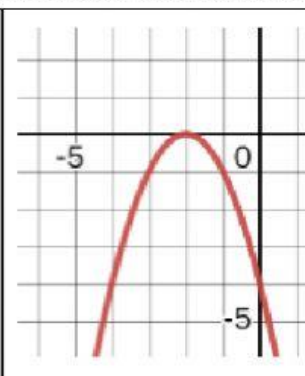

# of roots:_____

Actual root(s)_____

# of roots:_____

Actual root(s)_____

# of roots:_____

Actual root(s)_____