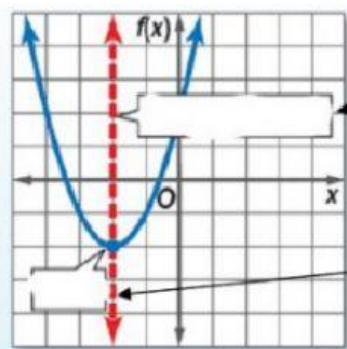


Characteristics of Parablola

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 $y =$ _____ | $a(x - d)^2 + c$ |
| 3. When the vertex is the lowest on the graph, we call that a _____ | $a(x - r)(x - s)$ |
| 4. Standard form of a quadratic function is $y =$ _____ | Axis of symmetry |
| 5. When the vertex is the highest on the graph, we call that a _____ | Maximum |
| 6. The solutions to quadratic equations are called _____ | Minimum |
| 7. The quadratic equation crosses the vertical axis at the _____ | Negative |
| 8. The graph opens up when the leading coefficient is _____ | Parabola |
| 9. The graph reflects over the x-axis when the a value is _____ | Positive |
| 10. Vertex form of a quadratic function is $y =$ _____ | x-intercept |



10. _____

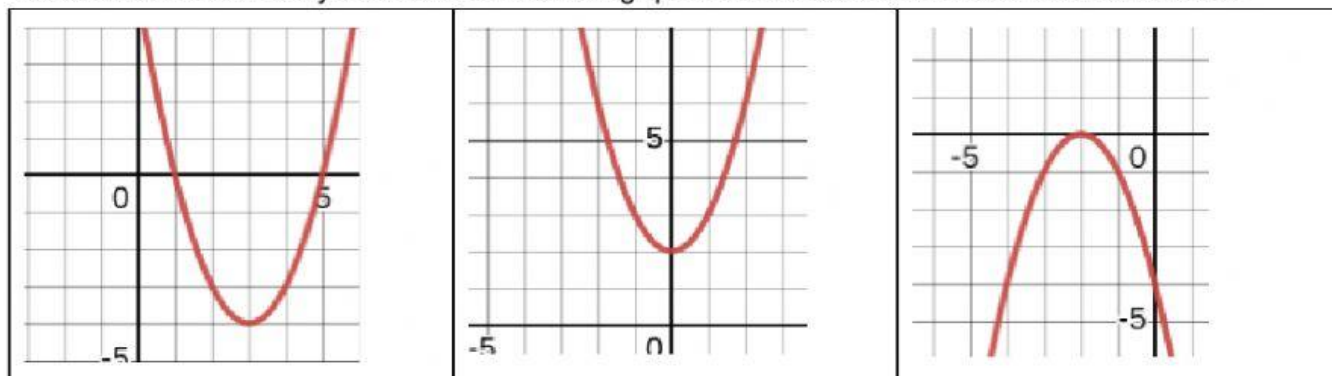
Vertex

11. _____

y-intercept

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) _____