## NAME　　　　　　　　　Structures of Expressions | 2.1
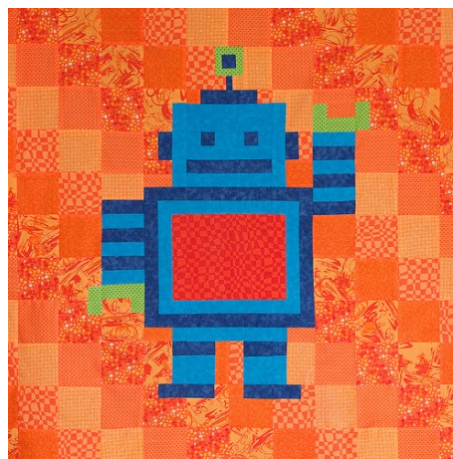
**Ready, Set, Go!**

**Ready**　　Topic: Finding key features in the graph of a quadratic equation
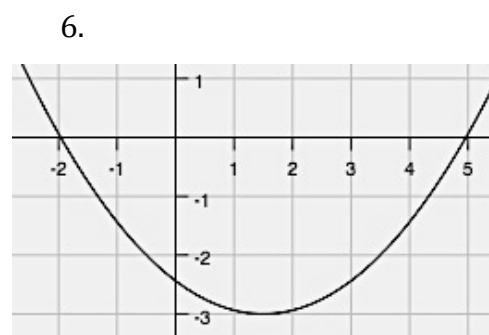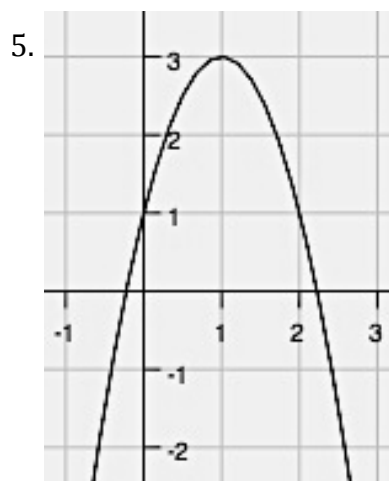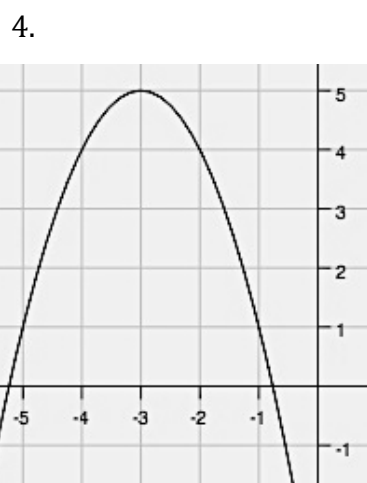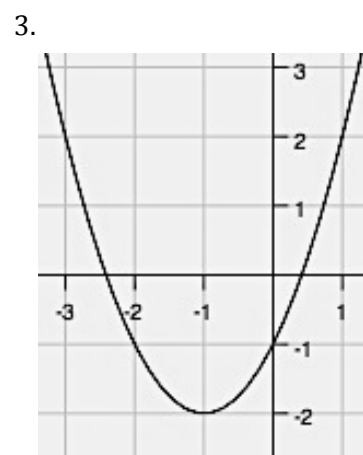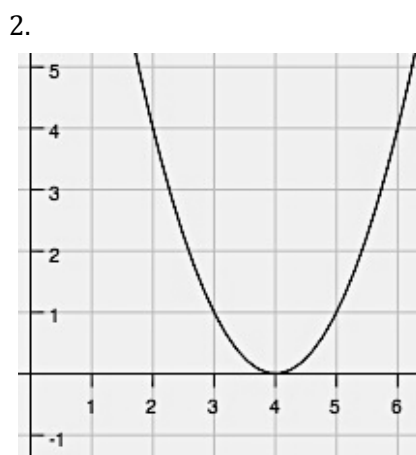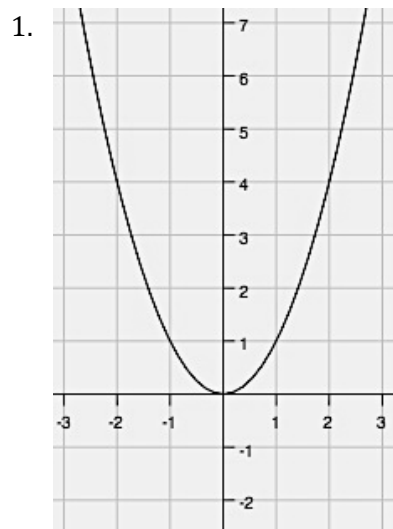
Make a point on the **vertex** and draw a dotted line for the **axis of symmetry**.
Label the coordinates of the vertex and state whether it's a **maximum** or a **minimum.**
Write the **equation for the axis of symmetry**.

1.

2.

3.

4.

5.

6.

7.  What connection exists between the coordinates of the vertex and the equation of the axis of symmetry?


8.  Look back at #6.  Try to find a way to find the ***exact*** value of the coordinates of the vertex.  Test your method with each vertex in 1 - 5.  Explain your conjecture.