

NAME _____

Structures of Expressions | 2.1

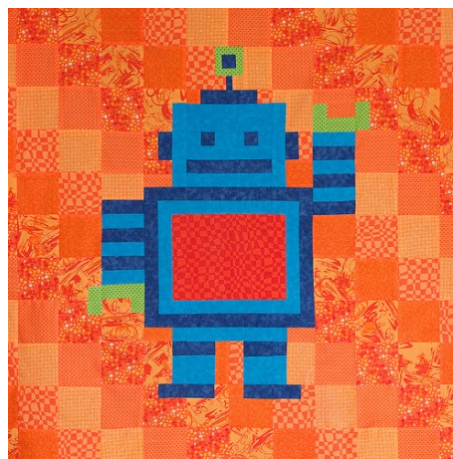
Ready, Set, Go!

Ready Topic: Finding key features in the graph of a quadratic equation

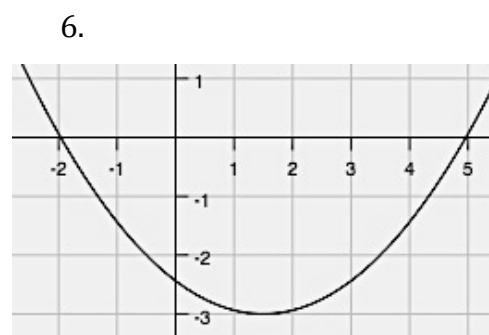
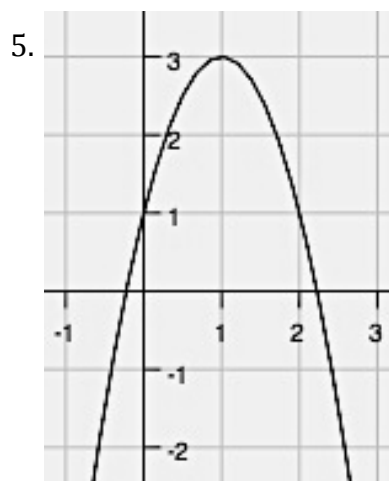
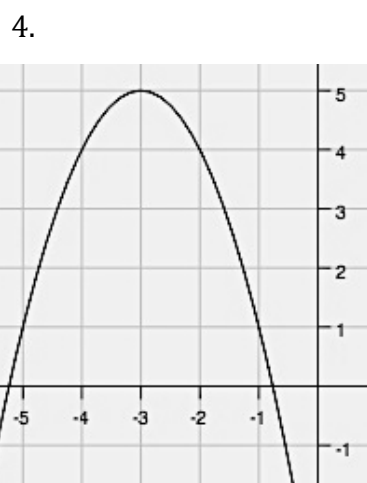
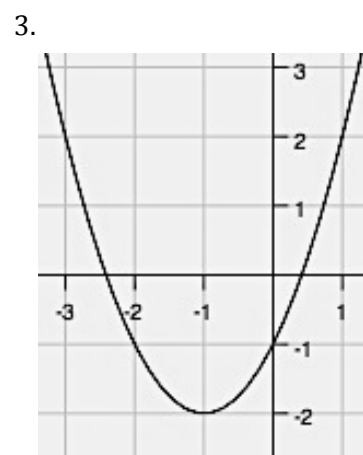
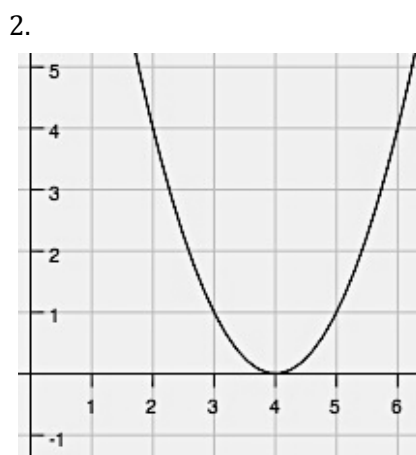
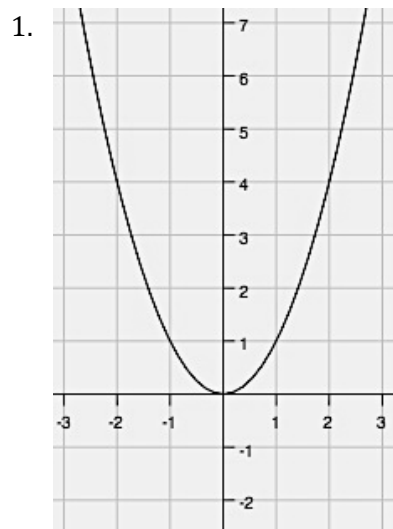
Make a point on the **vertex** and draw a dotted line for the **axis of symmetry**.

Label the coordinates of the vertex and state whether it's a **maximum** or a **minimum**.

Write the **equation for the axis of symmetry**.



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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.

