

Name: _____

Date: _____

Vertex Form of Parabola

In this activity we will investigate the vertex form of quadratic equations.

Step 1: Record the equation from your card below.

Your equation: _____

Step 2: Enter the equation into Y1 in the activity center.

Step 3: Get into a group with others that have your same vertex. Take your card with you.

Step 4: Record your group members' quadratic equations below.

Equation 1: _____ (rewrite yours)

Equation 2: _____

Equation 3: _____

Equation 4: _____

Step 5: Find the vertex for your group's quadratic equations.

(_____, _____)

Step 6: In your group, discuss similarities and differences in the equations above. Record your group findings below.

Step 7: Based on your findings, describe how to find a vertex given an equation.

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Check for Understanding:

Which graph shows a function $y = x^2 + c$ when $c < -1$?

