



Writing & Graphing QUADRATIC FUNCTIONS

ROUND TABLE ACTIVITY



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Round Table Activity

Objective: Students will practice the following skills with this round table activity: (1) identifying the axis of symmetry and vertex of a quadratic equation written in standard form, (2) converting a quadratic equation from standard form to vertex form, (3) identifying transformations from the parent function, and (4) completing a table of values and graphing a quadratic function.

Activity Directions: Place students into groups of four and give each person a round table paper. **There are eight versions of the activity so this activity can be used twice!** The directions for each person:

- Person #1 identifies the axis of symmetry and vertex given the standard form of a quadratic function.
- Person #2 will first check and initial that the work done by Person #1 is correct. Then Person #2 converts the standard form equation to vertex form.
- Person #3 will first check and initial that the work done by Person #2 is correct. Then Person #3 will describe the transformations from the parent function.
- Person #4 will first check and initial that the work done by Person #3 is correct. Then Person #4 will complete a table of values and graph the function.

The paper is then returned to Person #1 to check and initial that the work done by Person #4 is correct.

The image shows four overlapping worksheets for a round table activity. Each worksheet is for a different person (PERSON 1, PERSON 2, PERSON 3, PERSON 4) and contains specific tasks related to a given quadratic equation. The equations shown are $y = x^2 + 14x + 45$, $y = -x^2 + 4x + 1$, $y = 2x^2 - 4x - 6$, and $y = -3x^2 - 24x - 38$. The tasks include identifying the axis of symmetry and vertex, converting to vertex form, describing transformations, and graphing the function.