

Ten Second Quadratic Graphs Activity

Description

Students are asked to make 10-second sketches of quadratic graphs from vertex form. Use the activity as a review of quadratic graphs using vertex form.

Prep Work

Print sets of equations to project using document camera.

Instructions

○ Pre Activity

None

○ Activity

- Have the students take out a piece of paper and put six axes on the paper and number them. There should be not tick marks on the axes.
- Write six quadratic equations on the board or on the document camera using different types of numbers (small, large, fractions, positive, negative)
- Student get a couple minutes to draw quick sketches of the parabolas where all that matters is the vertex is in the correct quadrant, and the parabola is going in the correct direction facing up or down.
- Have students trade papers to grade.
- Ask for 6 volunteers to come to the board or document camera and draw one of the parabolas. Go over them with the class to determine why the graph drawn is correct or how to fix it if it is wrong.
- **When students exchange and grade neighbor's papers, have them write the equation on paper next to 10-second graph for a reference by students of correct form.**
- If you want to extend this activity, you can ask students to give the domain and range of each function as well as the equation for the axis of symmetry.

○ Post Activity

Small discussion of the characteristics of a parabola.

Time Required

15 minutes
