

Name _____ Class _____ Date _____

Graphing Quadratics Three-Ways

You have learned three different forms of a quadratic function: standard form, vertex form, and intercept form. In this project, you will create a mini-poster displaying graphs of each of the three forms.

Standard Form: $y = x^2 - 6x + 8$

Vertex Form: $y = (x - 3)^2 - 1$

Intercept Form: $y = (x - 2)(x - 4)$

I will provide the materials, you will provide the creativity and the awesome math skills. Be as creative as you want to be, use whatever resources you want (book, notes, youtube from your phone, classmate's help), but have the poster and reflection completed by the end of class today.

Reflection:

Complete the following in complete sentences. Attach the paper to the back of your poster.

- 1) By which method did you find it easiest to identify the vertex of the parabola? Why?

- 2) By which method did you find it easiest to identify the x-intercepts of the parabola? Why?

- 3) You are on a game show and will win \$1,000,000 if you can explain to me the steps for graphing a quadratic function. Go: