

Day 2

Vertex Form Matching Worksheet

Match the equation from column 1 with its graph in column 2. Be careful that you look at all the equations and compare them before you answer any questions.

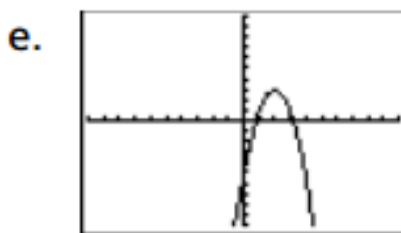
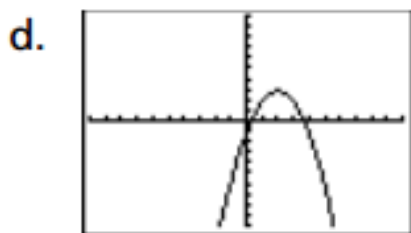
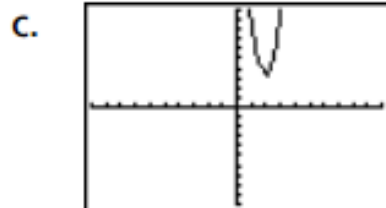
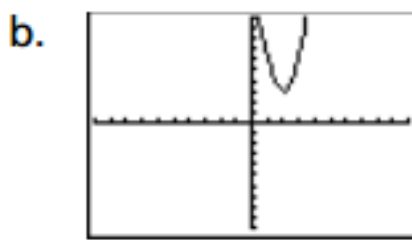
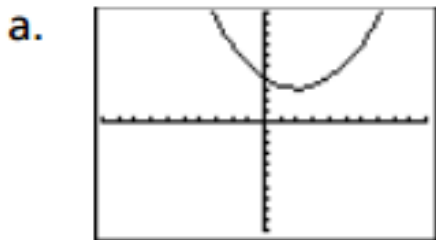
1. $y = 3(x - 2)^2 + 3$

4. $y = -2(x - 2)^2 + 3$

2. $y = -(x - 2)^2 + 3$

5. $y = 6(x - 2)^2 + 3$

3. $y = 0.25(x - 2)^2 + 3$



6. Describe the effect that changing the “a” value has on a graph of a parabola. Include a comparison of positive vs negative “a” values AND equations where $|a| > 1$ vs. $0 < |a| < 1$.

7. Sketch in the axis of symmetry for each of the graphs. What is the equation for the axis of symmetry for each of these graphs? How would you tell just by looking at the equation? How would you tell just by looking at the graph?