

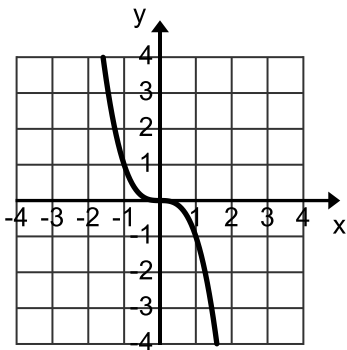
3-4 Parent Graphs

Name: _____

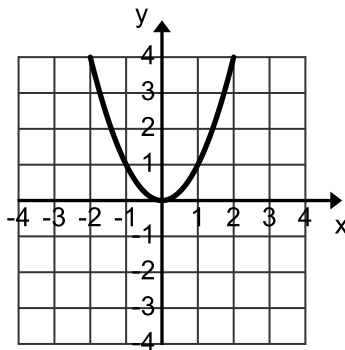
Time Start: _____ Finish: _____ Total Time = _____

Look at the graphs below and classify them as one of the following types of graphs:
Absolute Value, Square Root, Cube Root, Quadratic, Cubic, or Rational

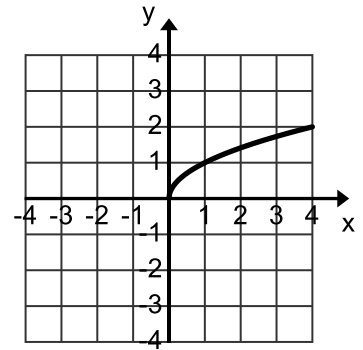
Graph 1



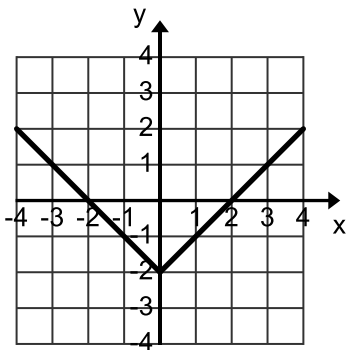
Graph 2



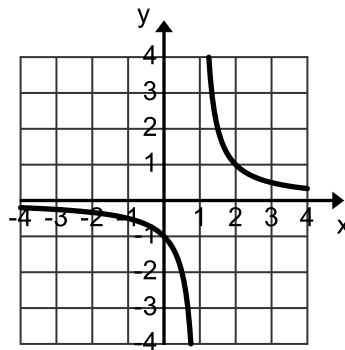
Graph 3



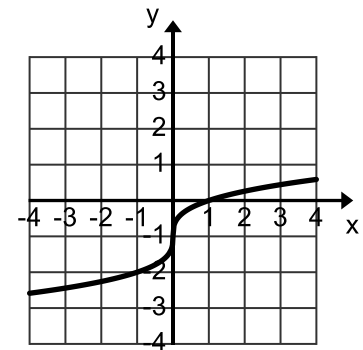
Graph 4



Graph 5



Graph 6



Graph 1: _____

Graph 2: _____

Graph 3: _____

Graph 4: _____

Graph 5: _____

Graph 6: _____

Look at the equation and determine what transformations occur.

The types of transformations would be it reflects over the x-axis, stretches vertically, stretches horizontally, shift right, shift left, shift up, shift down.

7. $f(x) = -(x - 3)^2 + 4$ _____

8. $f(x) = 2\sqrt{x+5} - 1$ _____

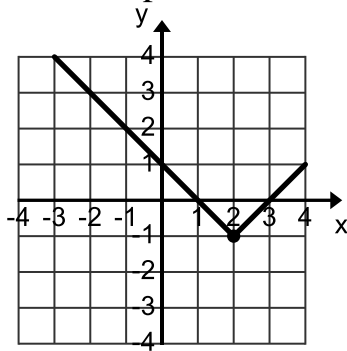
9. $f(x) = \frac{1}{2}(x-2)^3 - 5$ _____

10. $f(x) = -3|x+7|+2$ _____

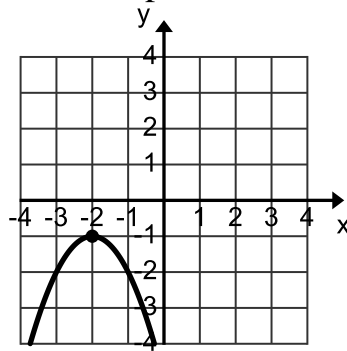
11. $f(x) = \frac{1}{x-2} + 4$ _____

Look at the graphs below and determine the equation. Don't worry about the a value. In other words, the answer will not be $f(x) = 3(x+2)^2 + 4$, but $f(x) = (x+2)^2 + 4$ (no a value of 3).

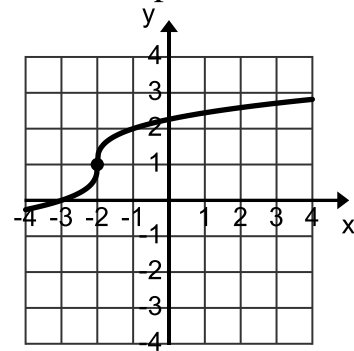
Graph 12



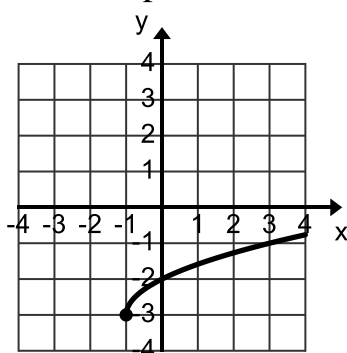
Graph 13



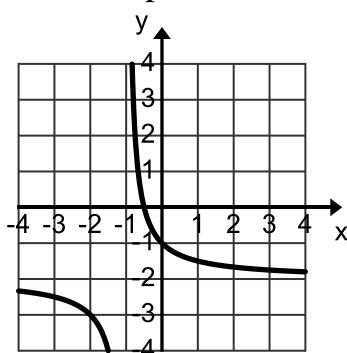
Graph 14



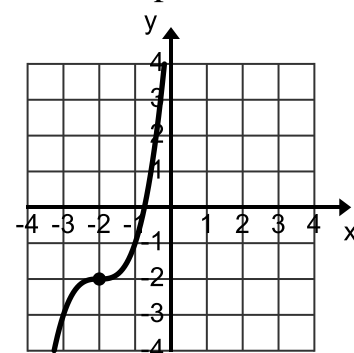
Graph 15



Graph 16



Graph 17



Graph 12: _____

Graph 13: _____

Graph 14: _____

Graph 15: _____

Graph 16: _____

Graph 17: _____