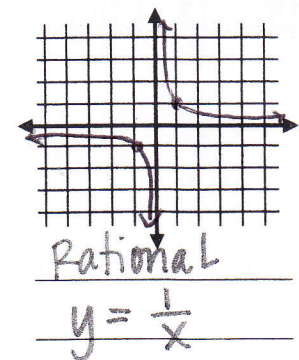
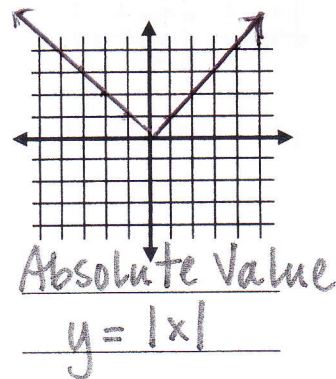
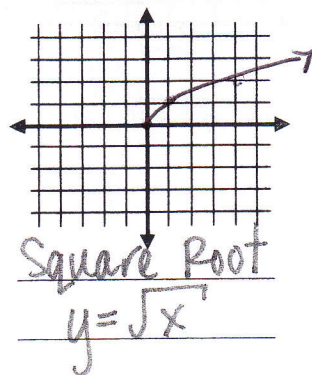
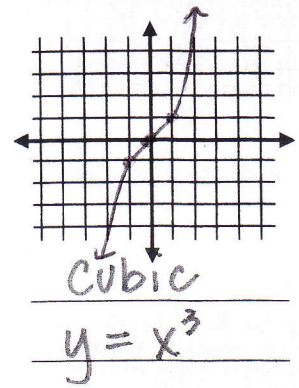
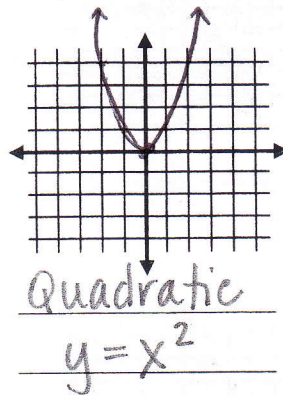
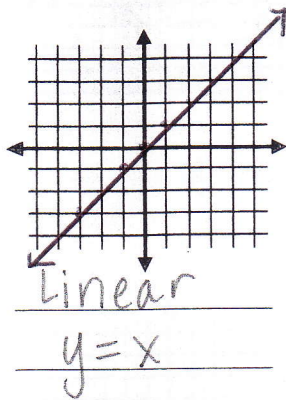


MATH 1 INTRODUCTION REVIEW FOR QUIZ

On the grids below, graph and label (with the equation and name) the six parent graphs.



If one of the parent graph equations has been multiplied by a number less than one, how is the graph affected?

Multiplying by a fraction makes the graph wider!

If one of the parent graph equations has a number added directly to the x, how is the graph affected?

Adding a number to the x moves the graph LEFT!

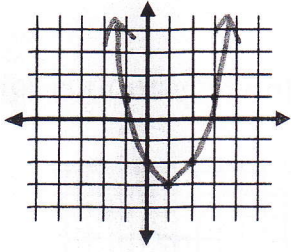
If one of the parent graph equations has a number subtracted at the end, how is the graph affected?

Subtracting a number at the end shifts the graph DOWN!

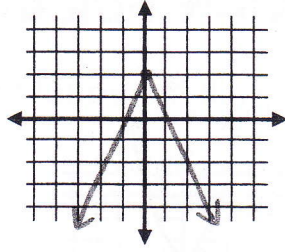
If one of the parent graph equations has been multiplied by a negative number, how is the graph affected?

Multiplying by a negative reflects the graph - making it upside down!

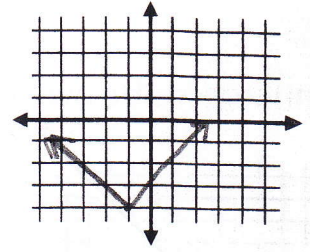
Graph the following.



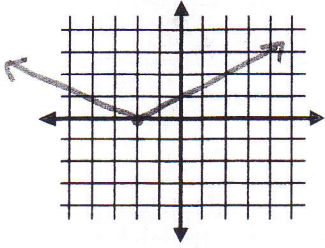
$$y = (x - 1)^2 - 3$$



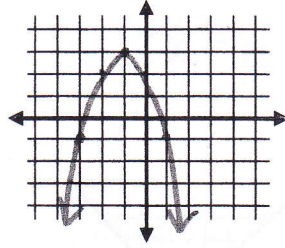
$$y = -2|x| + 2$$



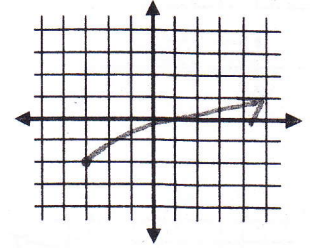
$$y = |x + 1| - 4$$



$$y = \frac{1}{2}|x + 2|$$

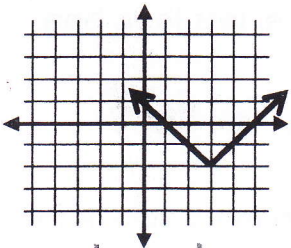


$$y = -(x + 1)^2 + 3$$

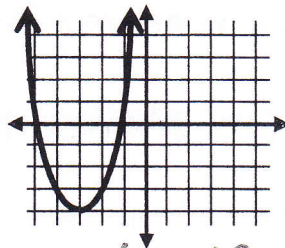


$$y = \sqrt{x + 3} - 2$$

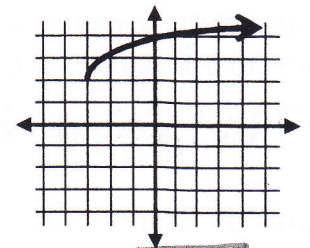
Write the equation of the graph.



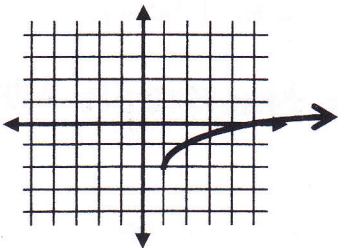
$$y = |x - 3| - 2$$



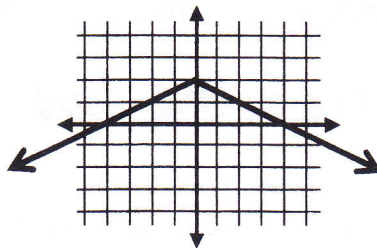
$$y = (x + 3)^2 - 4$$



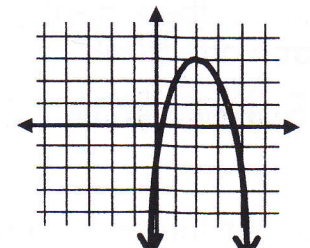
$$y = \sqrt{x + 3} + 2$$



$$y = \sqrt{x - 1} - 2$$



$$y = -\frac{1}{2}|x| + 2$$



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