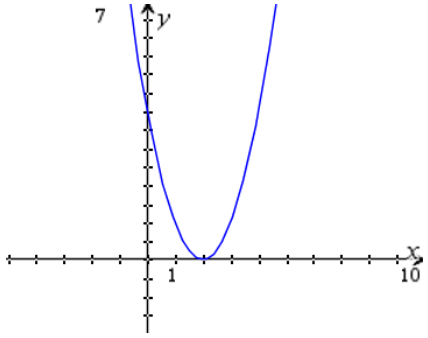
Name: _____ Hour: _____ Date: _____

Writing Equations of Transformed Functions Practice

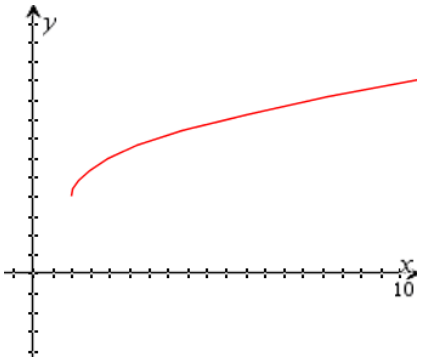
Using a colored pencil, sketch the parent function for each of the graphs below. Then write the equation that represents the transformed function.

1)



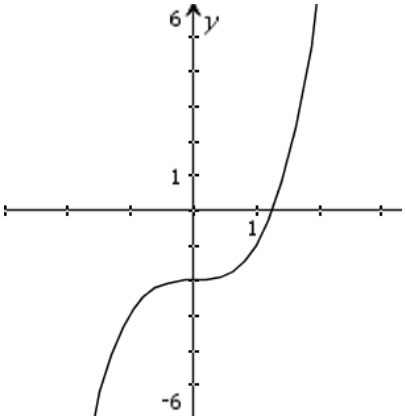
Equation:

2)



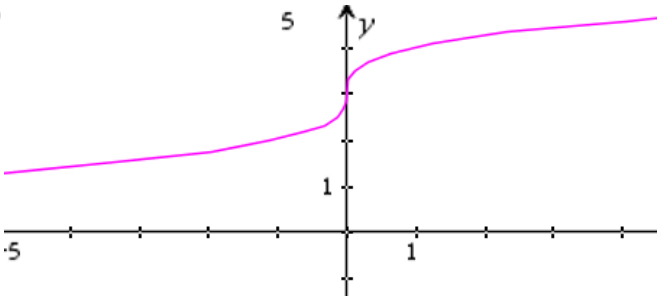
Equation:

3)



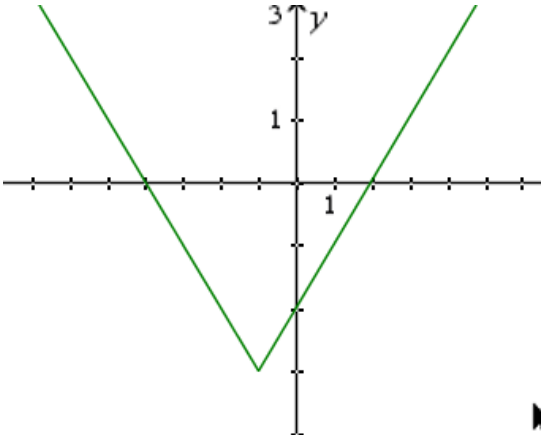
Equation:

4)



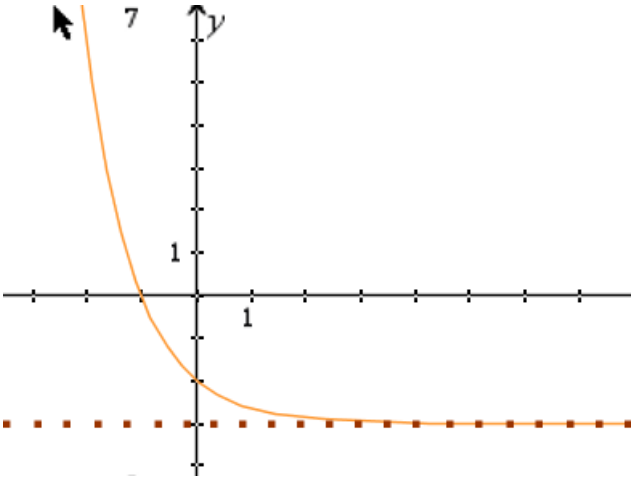
Equation:

5)



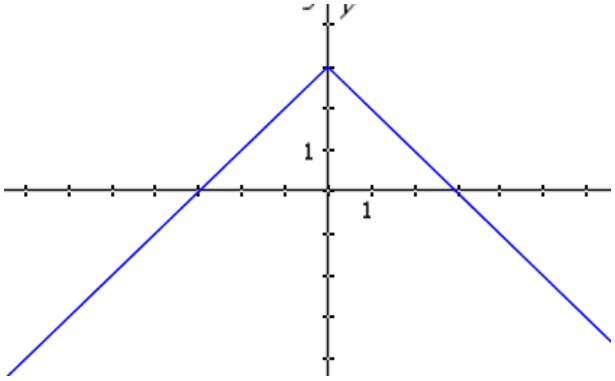
Equation:

6)



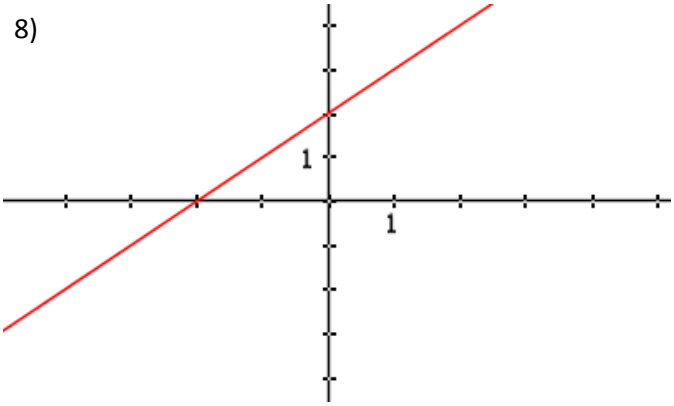
Equation:

7)



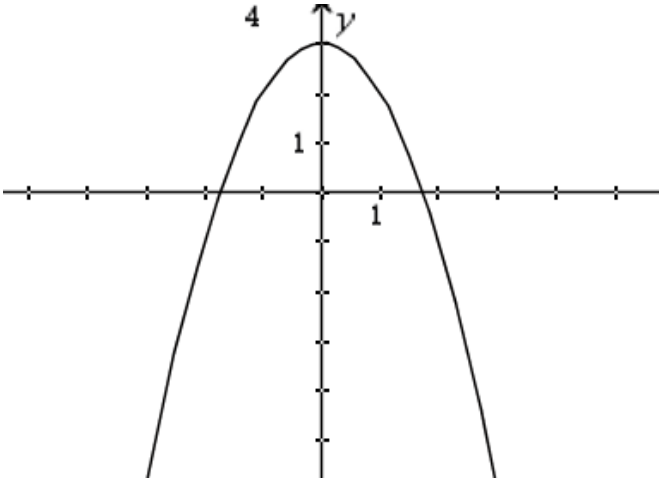
Equation:

8)



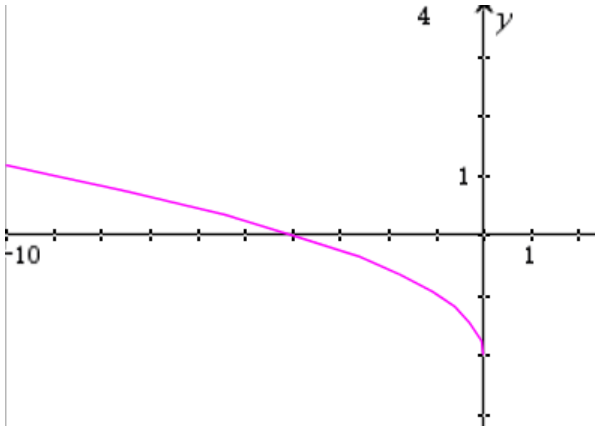
Equation:

9)



Equation:

10)



Equation:

Given the parent function and a description of the transformation, write the equation of the transformed function, f(x).

11) Quadratic – vertical shift up 3

12) Exponential – vertical shift down 4

13) Absolute Value – vertical shift up 6

14) Absolute Value – vertical shift up 3, horizontal shift left 4

15) Exponential Growth– vertical shift down 4, horizontal shift right 1

16) Quadratic – vertical shift up 3, horizontal shift left 4

17) Linear – vertical shift up 3, reflect over the x-axis