Algebra 2   Name _____

Worksheet #1 Lesson 1.3 Assignment   Block _____ Date _____

Let g(x) be the indicated transformation of f(x). Write the rule for g(x0. Show your work!

1. f(x) = 2x – 6
    vertical shift up 4

2. f(x) = 2x – 6
    vertical shift down 6

3. f(x) = 5x – 3
    horizontal translation left 3

4. f(x) = 5x – 3
    horizontal translation right 4

5. f(x) = -3x – 7
    reflection across the x - axis

6. f(x) = -3x - 7
    reflection across the y - axis

7. f(x) = 2x + 9
    vertical compression by $\frac{1}{3}$

8. f(x) = 2x + 9
    horizontal compression of $\frac{1}{2}$

9. f(x) = -x - 4
    horizontal stretch by 2

10. f(x) = -x - 4
    vertical stretch by 3