

Algebra 2 – Function Notation, Operations, and Composition Worksheet

Name: _____ Hour: _____

Use the following functions to answer the questions below.

$$f(x) = 3x + 5 \quad , \quad g(x) = x^2 \quad , \quad k(x) = -x - 8 \quad , \quad m(x) = 5x + 1$$

1. Evaluate $f(-2)$.

7. Evaluate $m(x) - f(x)$.

2. Evaluate $k(6)$.

8. Evaluate $(g \cdot f)(x)$.

3. Evaluate $m(p - 2)$.

9. Evaluate $f(g(x))$.

4. Evaluate $g(2x)$.

10. Evaluate $k(m(x))$.

5. Evaluate $k(x^2 + 1)$.

11. Evaluate $g(m(x))$.

6. Evaluate $f(x) + k(x)$.

12. Evaluate $k(g(x))$.