

Name : \_\_\_\_\_ Score : \_\_\_\_\_

Teacher : \_\_\_\_\_ Date : \_\_\_\_\_

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### Inverses of Functions

**Determine whether the functions are inverses.**

1)  $f(m) = \frac{2}{7}m - 3$

$g(m) = 1m$

2)  $f(b) = \frac{-2-5b}{2}$

$g(b) = \frac{2b-2}{-5}$

3)  $f(k) = 7k - 11$

$g(k) = \frac{k+11}{7}$

4)  $f(q) = (q + 6)^3$

$g(q) = q^{\frac{1}{3}} - 6$

5)  $f(z) = -11(z - 3)^3$

$g(z) = \left(\frac{z}{-11}\right)^{\frac{1}{3}} + 3$

6)  $f(y) = -7y$

$g(y) = \frac{y}{-7}$

**Find the inverse of each function.**

7)  $f(x) = \frac{5}{11}x + 2$

8)  $f(n) = \frac{8+5n}{2}$

9)  $f(d) = -5d + 11$

10)  $f(s) = (s + 7)^4$

11)  $f(w) = -7(w + 4)^3$

12)  $f(r) = -4r$

