

Finding and Proving Inverses

Name: _____

Find the inverse of the following functions.

1) $f(x) = 15x - 1$

2) $g(x) = \frac{1}{3}x + 7$

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

4) $f(x) = \frac{x+5}{-5}$

5) $h(x) = \sqrt{x - 5}$

6) $p(x) = 2x^3 + 3$

Use composition to determine if the following functions are inverses.

7) $f(x) = \sqrt[3]{x} - 3$ and $g(x) = (x + 3)^3$

8) $f(x) = \frac{-16+x}{4}$ and $g(x) = 4x + 16$