

Kuta Software - Infinite Algebra 2

Name _____

Function Inverses

Date _____ Period _____

State if the given functions are inverses.

1) $f(x) = 4 - \frac{1}{2}x$
 $g(x) = \frac{1}{2}x + \frac{1}{2}$

2) $f(x) = \frac{-10x + 20}{3}$
 $g(x) = \frac{-3x + 60}{10}$

3) $f(x) = \frac{-10x + 10}{4}$
 $g(x) = 4x + 10$

4) $f(x) = \frac{4}{3}x + \frac{10}{3}$
 $g(x) = \frac{3}{4}x - \frac{3}{4}$

5) $f(x) = 4x + 12$
 $g(x) = 2 + x^2$

6) $f(x) = 2x + 22$
 $g(x) = \frac{4 + \sqrt{20x}}{2}$

7) $f(x) = \frac{4}{x+2} + 2$
 $g(x) = \frac{1}{x+2}$

8) $f(x) = \frac{1}{4}x + 2$
 $g(x) = \frac{1}{x+2}$

Find the inverse of each function.

9) $h(x) = \sqrt{x} + 2$

10) $g(x) = \frac{1}{4}x + 2$

11) $h(x) = 2x^2 + 2$

12) $g(x) = 4x + 2$

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