

Inverse Review

Linear Inverses

1) $f(x) = 3x + 2$

2) $g(x) = 2x - 5$

Cubic Inverses

3) $h(x) = x^3 + 2$

4) $f(x) = 4\sqrt[3]{x}$

Rational Inverses

5) $g(x) = \frac{x-3}{x-2}$

Polynomial Inverses

6) $h(x) = (x+2)^5 + 2$

7) $f(x) = \sqrt[5]{x+1}$

State if the given functions are inverses.

8) $h(x) = \frac{1}{4}x - \frac{3}{4}$

$f(x) = 4x + 3$

A) $f(h(x)) =$ _____

B) $h(f(x)) =$ _____

C) yes / no

9) $f(n) = 2n^3$
 $h(n) = -\sqrt[3]{n} + 2$

A) $h(f(x)) =$ _____

B) $f(h(x)) =$ _____

C) yes / no

Find the inverse of each function. Then graph the function and its inverse.

10) $f(n) = n^3$

11) $g(x) = -3x + 2$

