Math-3A
Name_____ ID: 1

SM3-A HW #6-4 (Inverse Functions)   Date_____ Period____

Find the inverse of each function.

1) $f(x) = \dfrac{2}{x+1} - 2$

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

3) $f(x) = \dfrac{9}{10}x + \dfrac{1}{2}$

4) $f(x) = 3 - \dfrac{4}{3}x$

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

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

7) $f(x) = -\dfrac{3}{x+2} + 2$

8) $g(x) = -\dfrac{3}{x-1} - 1$

9) $g(x) = \dfrac{4}{-x-2} + 2$

10) $g(x) = -\dfrac{3}{x+2} + 3$
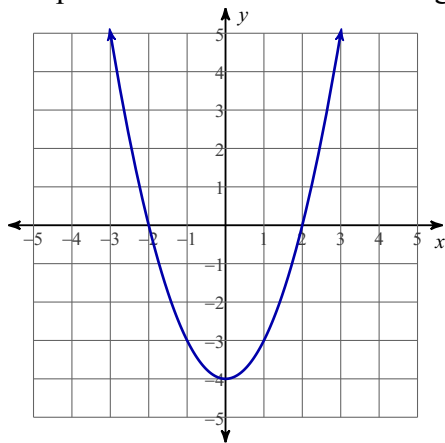
Perform the indicated operation.

11) $g(x) = -2x - 3$
$f(x) = 4x + 5$
Find $(g \circ f)(x)$

12) $g(n) = 2n - 2$
$h(n) = n^2 - 1$
Find $(g \circ h)(n)$

13) $f(n) = 4n$
$g(n) = 3n - 2$
Find $(f - 4g)(7)$

14) $f(t) = 3t - 1$
$g(t) = t^2 + 1$
Find $(2f + 3g)(5)$

15) Graph the inverse of the following function on the same x-y plot

16) Graph the inverse of the following function on the same x-y plot