Assignment

Date_____ Period____

Find the inverse of each function.

1) $f(n) = \dfrac{6 + \sqrt[3]{4n}}{2}$

2) $g(n) = \dfrac{-5n + 4}{8}$

3) $f(x) = \sqrt[3]{x + 1} + 2$

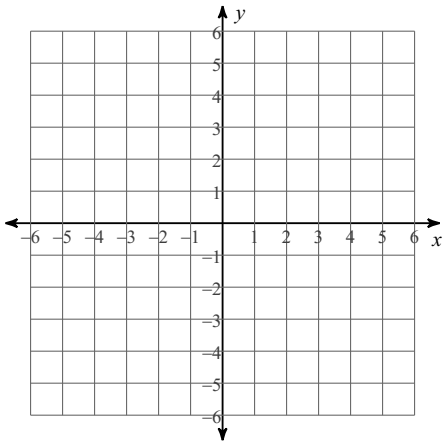
4) $g(x) = \dfrac{-15 - 8x}{5}$

5) $g(x) = \dfrac{4}{x + 3} - 2$

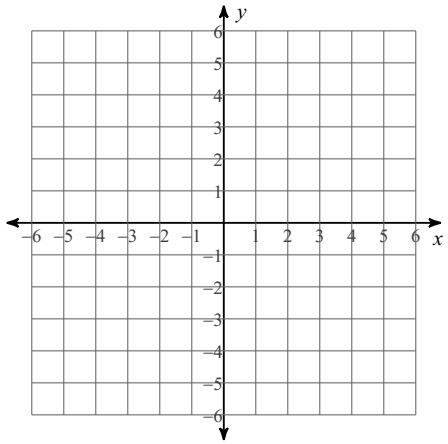
6) $f(n) = -2(n - 3)^3$

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

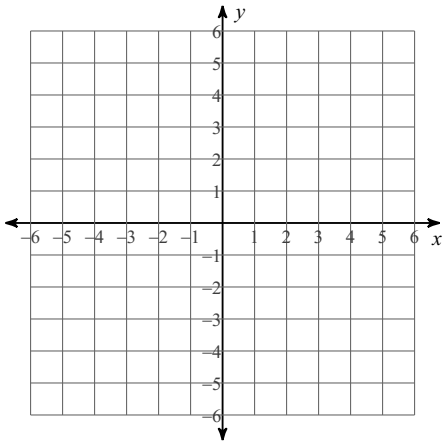
7) $g(x) = x - 5$



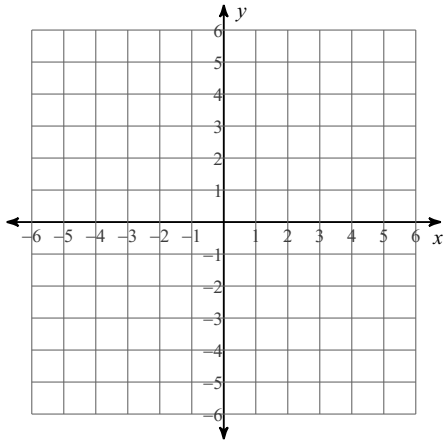
8) $f(x) = -2x^5 - 3$



9) $f(x) = 3 - \frac{1}{3}x$



10) $g(x) = \frac{2x - 10}{5}$



State if the given functions are inverses.

11) $g(x) = -x$
$f(x) = -x$

12) $f(x) = 5x - 5$
$g(x) = \frac{2x - 4}{5}$

13) $f(x) = \frac{4}{3}x + \frac{4}{3}$
$g(x) = \frac{-x + 36}{8}$

14) $g(x) = \frac{5}{2}x - \frac{25}{2}$
$f(x) = 5 + \frac{2}{5}x$