Adv Alg Name_____ ID: 2

Verifying Inverses

Date_____ Period____

State if the given functions are inverses.

1) $f(x) = -\frac{1}{6}x - \frac{10}{3}$
$g(x) = -6x - 20$

2) $g(x) = \frac{1}{3}x + \frac{2}{3}$
$f(x) = \frac{4}{3}x + 4$

3) $g(x) = 5 - \frac{5}{2}x$
$f(x) = \frac{12 + 7x}{4}$

4) $g(x) = 4x - 5$
$f(x) = 4x + 5$

5) $g(x) = -5x - 2$
$f(x) = -\frac{1}{5}x - \frac{2}{5}$

6) $f(x) = \frac{20 + x}{5}$
$h(x) = 5x - 20$

7) $g(x) = 2 - x^5$
$f(x) = \sqrt[5]{-x + 2}$

8) $f(x) = \sqrt[3]{x + 2}$
$g(x) = -2 + x^3$

9) $f(x) = \dfrac{4}{x - 1}$
$g(x) = \dfrac{4}{x} + 1$

10) $g(x) = \sqrt[5]{x}$
$f(x) = \sqrt[5]{-\dfrac{x}{2}}$

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

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