Precalculus Name_____

1-7 Inverse Functions

Find the inverse of each function. Write the domain of the function and its inverse.

1) $f(x) = -2x - 2$

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

3) $f(n) = -\frac{3}{n+1} + 2$

4) $h(n) = \frac{4}{n-1} - 2$

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

State if the given functions are inverses and write the domain of each.

6) $f(x) = \sqrt[3]{x} - 1$
$g(x) = (x + 1)^3$

7) $f(x) = -2x^5 - 1$
$g(x) = \sqrt[5]{\frac{-x - 1}{2}}$

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

9) $g(x) = \frac{10 - 2x}{5}$
$f(x) = 3x + 9$

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