

Inverse Function Worksheet

Date _____ Period _____

Find the inverse of each function.

1) $g(x) = -\frac{1}{x-1} + 3$

2) $f(x) = x - 6$

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

4) $f(x) = \sqrt[5]{x+2} + 2$

5) $g(x) = \frac{-4 + \sqrt[3]{4x}}{2}$

6) $f(x) = \frac{4}{5}x - 4$

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

8) $g(x) = -\sqrt[5]{x} - 3$

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

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

Inverse Function Worksheet

Date _____ Period _____

Find the inverse of each function.

1) $g(x) = -\frac{1}{x-1} + 3$

$$g^{-1}(x) = -\frac{1}{x-3} + 1$$

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

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

5) $g(x) = \frac{-4 + \sqrt[3]{4x}}{2}$

$$g^{-1}(x) = 2(x+2)^3$$

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

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

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

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

2) $f(x) = x - 6$

$$f^{-1}(x) = x + 6$$

4) $f(x) = \sqrt[5]{x+2} + 2$

$$f^{-1}(x) = (x-2)^5 - 2$$

6) $f(x) = \frac{4}{5}x - 4$

$$f^{-1}(x) = 5 + \frac{5}{4}x$$

8) $g(x) = -\sqrt[5]{x} - 3$

$$g^{-1}(x) = -(x+3)^5$$

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

$$f^{-1}(x) = -\frac{1}{x+1}$$