

U2 L5 Inverse Function Extra Practice

Find the inverse of each function.

1) $f(x) = -2x^3 + 3$

2) $g(x) = -x + 4$

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

4) $h(x) = -2x + 5$

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

6) $f(x) = \frac{3x}{5}$

$$7) \ g(x) = -\frac{4}{x+1} - 3$$

$$8) \ h(x) = \frac{4}{x-2} + 2$$

$$9) \ f(x) = -x - 2$$

$$10) \ g(x) = \frac{-x+4}{4}$$

$$11) \ y = \frac{x+4}{x-2}$$

$$12) \ y = \frac{7x}{2x+1}$$

U2 L5 Inverse Function Extra Practice

Find the inverse of each function.

1) $f(x) = -2x^3 + 3$

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

2) $g(x) = -x + 4$

$$g^{-1}(x) = -x + 4$$

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

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

4) $h(x) = -2x + 5$

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

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

$$f^{-1}(x) = 3x - 12$$

6) $f(x) = \frac{3x}{5}$

$$f^{-1}(x) = \frac{5x}{3}$$

$$7) \ g(x) = -\frac{4}{x+1} - 3$$

$$g^{-1}(x) = \frac{4}{-x-3} - 1$$

$$8) \ h(x) = \frac{4}{x-2} + 2$$

$$h^{-1}(x) = \frac{4}{x-2} + 2$$

$$9) \ f(x) = -x - 2$$

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

$$10) \ g(x) = \frac{-x+4}{4}$$

$$g^{-1}(x) = -4x + 4$$

$$11) \ y = \frac{x+4}{x-2}$$

$$y = \frac{2x+4}{x-1}$$

$$12) \ y = \frac{7x}{2x+1}$$

$$y = \frac{x}{7-2x}$$