

Unit 5 Day 3 Warm Up

Find the inverse of each function.

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

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

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

4) $f(n) = \sqrt[5]{n+1}$

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

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

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

8) $g(x) = x - 1$

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Find the inverse of each function.

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

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

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

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

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

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

4) $f(n) = \sqrt[5]{n+1}$

$$f^{-1}(n) = n^5 - 1$$

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

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

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

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

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

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

8) $g(x) = x - 1$

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