

**Find the inverse of each function.**

1)  $f(n) = -\frac{\sqrt[3]{4n}}{2}$

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

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

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

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

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

7)  $f(x) = -x^3$

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

$$9) g(x) = -2(x + 2)^3$$

$$10) f(n) = -\frac{2}{-n-2} - 2$$

$$11) h(x) = -2x$$

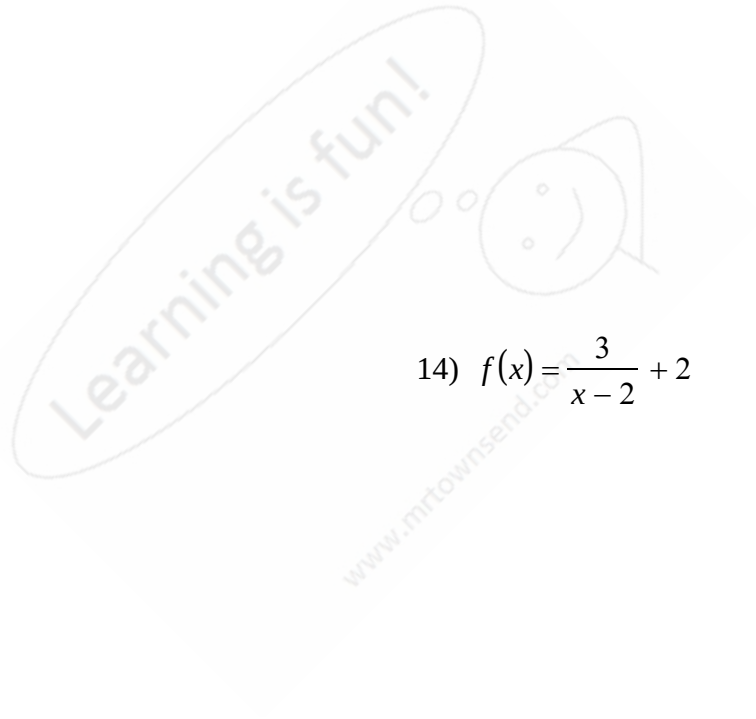
$$12) f(x) = -x^3 + 2$$

$$13) g(x) = \sqrt[5]{x} + 2$$

$$14) f(x) = \frac{3}{x-2} + 2$$

$$15) f(x) = \frac{5x}{2}$$

$$16) f(n) = \sqrt[5]{n+1} + 1$$



## Answers to

1)  $f^{-1}(n) = -2n^3$

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

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

4)  $g^{-1}(x) = 2x^5 - 3$

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

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

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

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

9)  $g^{-1}(x) = \frac{-4 - \sqrt[3]{4x}}{2}$

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

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

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

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

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

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

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

