

Inverses of Functions - PRACTICE

Find the inverse of each function.

1) $g(x) = \frac{4}{5}x - \frac{4}{5}$

2) $f(x) = x + 4$

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

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

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

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

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

8) $f(x) = \frac{2}{x}$

$$9) f(x) = 1 + (x + 1)^3$$

$$10) g(x) = 2x^5 - 1$$

$$11) g(x) = -\frac{\sqrt[3]{4x}}{2}$$

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

State (and show) if the given functions are inverses.

$$13) \begin{aligned} h(x) &= x + 2 \\ f(x) &= x - 2 \end{aligned}$$

$$14) \begin{aligned} f(x) &= \frac{-8x + 17}{3} \\ g(x) &= -2 - \frac{5}{4}x \end{aligned}$$

$$15) \begin{aligned} g(x) &= -5 - \frac{2}{5}x \\ f(x) &= -3x + 6 \end{aligned}$$

$$16) \begin{aligned} g(n) &= \frac{2n - 8}{3} \\ f(n) &= \frac{8 + 3n}{2} \end{aligned}$$