

Hallar la función inversa de:

$$f(x) = 2x + 1$$

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

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

$$f(x) = \frac{2x - 3}{4}$$

$$y = \frac{2x - 3}{4} \quad 4y = 2x - 3$$

$$x = \frac{4y + 3}{2} \quad f^{-1}(x) = \frac{4x + 3}{2}$$

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

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

$$yx - 2y = x + 3 \quad x(y - 1) = 2y + 3$$

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

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

$$y = \frac{2x + 3}{x - 1} \quad y(x - 1) = 2x + 3$$

$$xy - y = 2x + 3 \quad xy - 2x = y + 3$$

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

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

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

$$y = \frac{1}{x}$$

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

$$f(x) = \sqrt{x}$$

$$f(x) = \sqrt{x} \quad y = \sqrt{x}$$

$$y^2 = x \quad g^{-1}(x) = x^2$$

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

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

$$y(2x + 1) = 2x - 1 \quad 2xy + y = 2x - 1$$

$$2xy - 2x = -1 - y \quad x(2y - 2) = -1 - y$$

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

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

$$y = \sqrt[3]{x - 1} \quad y^3 = x - 1$$

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

$$f(x) = 2x + 1$$

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

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