

Find a formulas for $f^{-1}(x)$. Give the domain

14. $f(x) = 2x + 5$

18. $f(x) = \sqrt{x + 2}$

22. $f(x) = \sqrt[3]{x - 2}$

Confirm that the following two functions are inverses by proving that $f(g(x)) = x$ and $g(f(x)) = x$

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

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