

Exercise 21

For the following exercises, find the inverse of the function.

$$f(x) = 3x - 5$$

Solution

To find the inverse, switch x with y in the given equation.

$$x = 3y - 5$$

Solve for y .

$$x + 5 = 3y$$

$$\frac{x + 5}{3} = y$$

Therefore, the inverse of $f(x)$ is

$$f^{-1}(x) = \frac{x + 5}{3}.$$

