

## Exercise 73

For the following exercises, find  $f^{-1}(x)$  for each function.

$$f(x) = 9 + 10x$$

### Solution

To find the inverse function, switch  $x$  and  $y$  in the given equation.

$$x = 9 + 10y$$

Solve for  $y$ .

$$x - 9 = 10y$$

$$\frac{x - 9}{10} = y$$

Therefore, the inverse function is

$$f^{-1}(x) = \frac{x - 9}{10}.$$

