

Q. 4 Let $f: R \rightarrow R$ be the function defined by $f(x) = 2x - 3, \forall x \in R$. Write f^{-1} .

Sol. Given that,
Now, let

$$f(x) = 2x - 3, \forall x \in R$$

$$y = 2x - 3$$

$$2x = y + 3$$

$$x = \frac{y + 3}{2}$$

\therefore

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