

Higher Maths
SQA 2016 Paper 1
Question 6



Functions f and g are defined on \mathbb{R} , the set of real numbers.

The inverse functions f^{-1} and g^{-1} both exist.

(a) Given $f(x) = 3x + 5$, find $f^{-1}(x)$. 3

(b) If $g(2) = 7$, write down the value of $g^{-1}(7)$. 1

Answers:

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

(b) 2