

Higher Maths  
SQA 2015 Paper 1  
Question 5



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A function  $g$  is defined on  $\mathbb{R}$ , the set of real numbers, by  $g(x) = 6 - 2x$ .

- (a) Determine an expression for  $g^{-1}(x)$ . 2
- (b) Write down an expression for  $g(g^{-1}(x))$ . 1
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Answers:

(a)  $g^{-1}(x) = \frac{6-x}{2}$  or  $3 - \frac{x}{2}$  or  $\frac{x-6}{-2}$

(b)  $x$