

Higher Maths
SQA 2019 Paper 1
Question 12



Functions f and g are defined by

- $f(x) = \frac{1}{\sqrt{x}}$, where $x > 0$
- $g(x) = 5 - x$, where $x \in \mathbb{R}$.

- (a) Determine an expression for $f(g(x))$. 2
- (b) State the range of values of x for which $f(g(x))$ is undefined. 1
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Answers:

- (a) $\frac{1}{\sqrt{5-x}}$
- (b) $x \geq 5$