Functions f and g are defined by

- $f(x) = \dfrac{1}{\sqrt{x}}$, 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**

Answers:

(a) $\dfrac{1}{\sqrt{5-x}}$

(b) $x \geq 5$