

12 It is given that

- $f(x) = \pm \frac{1}{\sqrt{x}}, x > 0$

- $g(x) = \frac{x}{x-3}, x > 3$

- $h(x) = x^2 + 2, x \in \mathbb{R}.$

(a) Explain why $f(x)$ is **not** a function.

[1]

(b) Find $gh(x)$.

[2]

(c) State the domain of $gh(x)$.

[1]