Consider functions $f(x) = \sqrt{4-x}$ and $g(x) = \frac{1}{x^2}$.

(a) Determine the exact value of g(f(-5)).

(2 marks)

(b) Determine the domain for f(g(x)).

(3 marks)

(c) Explain why function g is not a one-to-one function.

(1 mark)