Higher Maths
SQA 2024 Paper 2
Question 8

8. Functions f and g are defined on $\mathbb{R}$, the set of real numbers, by:

- $f(x) = 2x^2 - 18$
- $g(x) = x + 1$.

(a) Find an expression for $f(g(x))$. **2**

(b) Find the values of x for which $\dfrac{1}{f(g(x))}$ is undefined. **2**

Answers:

(a) $2(x+1)^2 - 18$

(b) -4 and 2

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