

IB Functions Problem 008

Let $f(x) = 3\ln x$ and $g(x) = \ln 5x^3$.

- A. Write $g(x)$ in the form $f(x) + \ln a$ where $a \in \mathbb{Z}^+$.
- B. The graph of g is a transformation of the graph of f . Give a full geometric description of this transformation.