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## Composite Functions | Past Paper Question | Specimen Paper 2 - Q4(a)

Given

$$f(x) = e^x, \quad x \in \mathbb{R}$$

$$g(x) = 3 \ln x, \quad x > 0, x \in \mathbb{R}$$

(a) find an expression for  $gf(x)$ , simplifying your answer. (2)

$$\begin{aligned} gf(x) &= g(e^x) \\ &= 3 \ln e^x \\ &= 3x \ln e \\ &= 3x, \quad x \in \mathbb{R} \end{aligned}$$

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