

Advanced Higher Maths
SQA 2019 Paper
Question 5

For $x = \ln(2t+7)$ and $y = t^2$, $t > 0$, find

(a) $\frac{dy}{dx}$ 2

(b) $\frac{d^2y}{dx^2}$. 2

Answers:

(a) $2t^2 + 7t$

(b) $\frac{1}{2}(2t+7)(4t+7)$