

Advanced Higher Maths
SQA 2025 Paper 2
Question 2



A curve is defined by the equation $2y^2 + 4xe^{2y} = 3x$.

Find an expression for $\frac{dy}{dx}$ in terms of x and y .

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Answer:

$$\frac{dy}{dx} = \frac{3 - 4e^{2y}}{4y + 8xe^{2y}}$$