

Advanced Higher Maths
SQA 2024 Paper 2
Question 1

Given $y = \frac{\sin 7x}{1+x^2}$, find $\frac{dy}{dx}$.

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Answer:

$$\frac{7 \cos 7x(1+x^2) - 2x \sin 7x}{(1+x^2)^2}$$