

Advanced Higher Maths
SQA 2025 Paper 1
Question 7



Solve the differential equation

$$\frac{dy}{dx} = \frac{y}{2x-1}, \quad x, y > 1,$$

given that $y = 12$ when $x = 5$. Express y in terms of x .

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Answer:

$$y = 4(2x-1)^{\frac{1}{2}}$$