

Higher Maths
SQA 2022 Paper 2
Question 6



A curve with equation $y = f(x)$ is such that $\frac{dy}{dx} = 1 - \frac{3}{x^2}$, where $x > 0$.
The curve passes through the point (3, 6).

Express y in terms of x .

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Answer:

$$y = x + \frac{3}{x} + 2$$