Cambridge International AS & A Level

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Mathematics 9709/12

Paper 1 Pure Mathematics 1 **May/June 2023**

Question No (1)

1 The equation of a curve is such that $\frac{dy}{dx} = \frac{4}{(x-3)^3}$ for $x > 3$. The curve passes through the point $(4, 5)$.

Find the equation of the curve.

Solution: