

6

A certain curve is such that its gradient at a general point with coordinates (x, y) is proportional to $\frac{y^2}{x}$. The curve passes through the points with coordinates $(1, 1)$ and $(e, 2)$. By setting up and solving a differential equation, find the equation of the curve, expressing y in terms of x . [8]

$$\frac{dy}{dx} \propto \frac{y^2}{x} \therefore \frac{dy}{dx} = k \frac{y^2}{x}$$

$$\text{so } \frac{dy}{y^2} = \frac{k}{x} dx$$

$$\int y^{-2} dy = \int \frac{k}{x} dx$$

$$\frac{y^{-1}}{-1} = k \ln x + C$$

$$\text{so } -\frac{1}{y} = k \ln x + C$$

$(1, 1)$

$$-1 = C$$

$$\therefore -\frac{1}{y} = k \ln x - 1$$

$(e, 2)$

$$-\frac{1}{2} = k \ln e - 1$$

$$\therefore k = \frac{1}{2}$$

so

$$-\frac{1}{y} = \frac{1}{2} \ln x - 1$$

so

$$\frac{1}{y} = 1 - \frac{1}{2} \ln x$$

$$\frac{1}{y} = \frac{2 - \ln x}{2}$$

$$\therefore y = \frac{2}{2 - \ln x}$$

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Marcel A. Müller



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