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]

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

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

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

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

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

(1, 1) $\quad -1 = c$

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

(e, 2) $\quad -\frac{1}{2} = k\ln e - 1$

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

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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