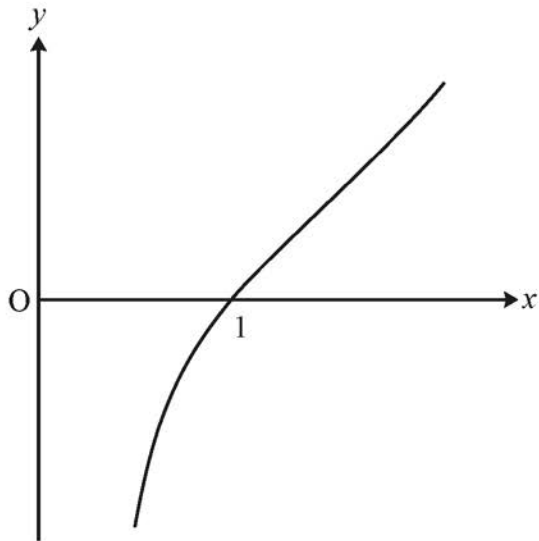


- 7 The diagram shows part of a curve which passes through the point  $(1, 0)$ .



The gradient of the curve is given by  $\frac{dy}{dx} = 6x + \frac{8}{x^3}$ .

Determine whether the curve passes through the point  $(2, 12)$ .