

3 (a) Find $\int \left(2x^3 + \frac{8}{x^2} \right) dx$

[3 marks]

3 (b) A curve has gradient function $\frac{dy}{dx} = 2x^3 + \frac{8}{x^2}$

The x -intercept of the curve is at the point $(2, 0)$

Find the equation of the curve.

[2 marks]