

11 The equation of a curve is

$$x^2y + 4y^3 = 8x$$

The curve has two stationary points.

11 (a) Use implicit differentiation to show that at the stationary points $y = \frac{4}{x}$

[4 marks]

11 (b) Hence show that the x -coordinates of the stationary points can be written in the form $\pm\sqrt{n}$ where n is an integer to be found.

[3 marks]