

(i) Find the equation of the curve.

[4]

(ii) Find $\frac{d^2y}{dx^2}$.

[2]

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(iii) Find the coordinates of the stationary point on the curve and, showing all necessary working, determine the nature of this stationary point. [4]

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.