

8 A curve has equation $y = \frac{1}{2}x^2 - 4x^{\frac{3}{2}} + 8x$.

(i) Find the x -coordinates of the stationary points.

[5]

[illegible]

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

[1]

[illegible]

(iii) Find, showing all necessary working, the nature of each stationary point.

[2]

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