

4 The curve C has equation

$$y = x^3 - 3x^2 - 24x + 6$$

(a) Use calculus to find the coordinates of each of the stationary points on C .

(4)

(b) Determine the nature of each of these stationary points.
Justify your answers.

(2)

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Question 4 continued

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(Total for Question 4 is 6 marks)

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