

- 7 The curve with equation $y = mx^2 + 64\sqrt{x} + 39$ has a stationary point with coordinates $(4, n)$ where m and n are integers.

Using calculus

- (a) find the value of m and the value of n (6)
- (b) determine the nature of the stationary point. (2)

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Question 7 continued

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(Total for Question 7 is 8 marks)

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