



- 3 The equation of a curve is  $y = 2x^2 - 3$ . Two points  $A$  and  $B$  with  $x$ -coordinates 2 and  $(2 + h)$  respectively lie on the curve.

- (a) Find and simplify an expression for the gradient of the chord  $AB$  in terms of  $h$ . [3]

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- (b) Explain how the gradient of the curve at the point  $A$  can be deduced from the answer to part (a), and state the value of this gradient. [2]

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