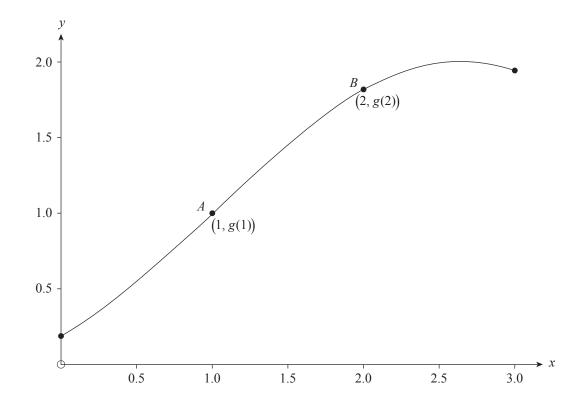
## Question 5 (6 marks)

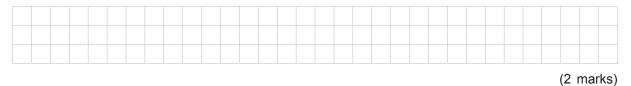


The graph of the curve y = g(x) for  $0 \le x \le 3$  is shown below.

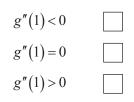
Points A and B lie on the curve. Point A is the only point of inflection.

- (a) Which *one* of the following statements is true? Tick the appropriate box, and justify your answer.
  - g'(1) < g'(2) g'(1) = g'(2) g'(1) > g'(2)  $\Box$

Justification:



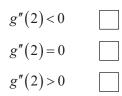
(b) Which *one* of the following statements is true? Tick the appropriate box, and justify your answer.



Justification:

														(2 r	nar	ks)

(c) Which *one* of the following statements is true? Tick the appropriate box, and justify your answer.



Justification:

-																

(2 marks)