

11 It is given that for the continuous function g

- $g'(1) = 0$
- $g'(4) = 0$
- $g''(x) = 2x - 5$

11 (a) Determine the nature of each of the turning points of g

Fully justify your answer.

[3 marks]

11 (b) Find the set of values of x for which g is an increasing function.

[2 marks]