9   A continuous curve has equation $y = f(x)$

The curve passes through the points $A(2, 1)$, $B(4, 5)$ and $C(6, 1)$

It is given that $f'(4) = 0$
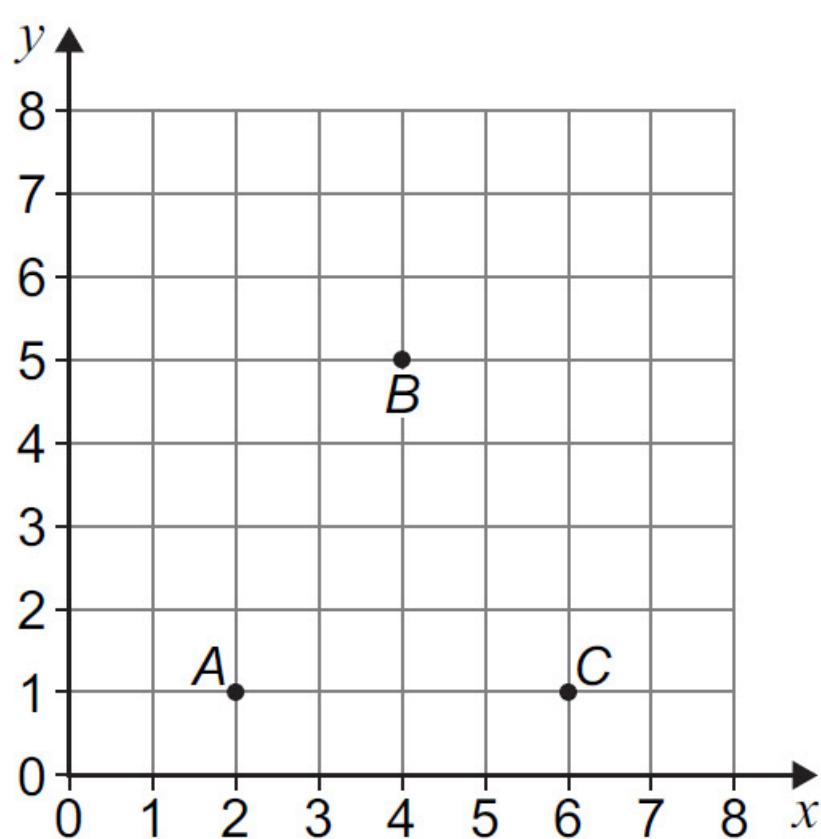
Jasmin made two statements about the nature of the curve $y = f(x)$ at the point B:

    Statement 1:   There is a turning point at B

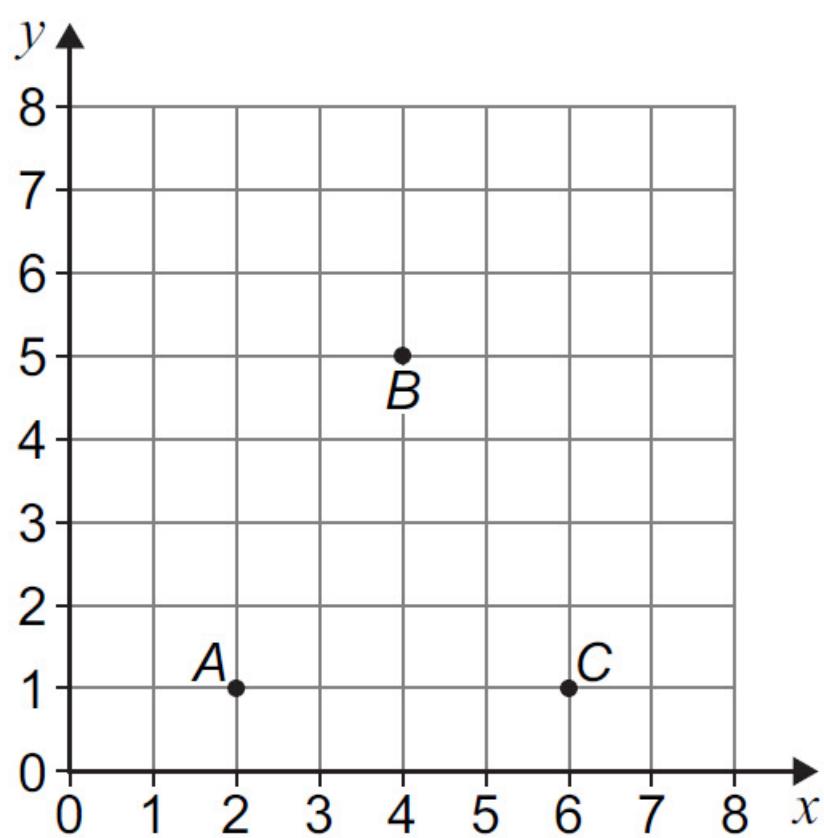   Statement 2:   There is a maximum point at B

9 (a)   Draw a sketch of the curve $y = f(x)$ such that Statement 1 is correct and Statement 2 is correct.

[1 mark]

9 (b)   Draw a sketch of the curve $y = f(x)$ such that Statement 1 is correct and Statement 2 is **not** correct.

[1 mark]

9 (c)   Draw a sketch of the curve $y = f(x)$ such that Statement 1 is **not** correct and Statement 2 is **not** correct.

[1 mark]