AQA – Differentiation – A2 Mathematics P2

1. June/2021/Paper_7357/2/No.2

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

The curve has a point of inflection at $x = 7$

It is given that $f'(7) = a$ and $f''(7) = b$, where a and b are real numbers.

Identify which one of the statements below must be true.

Circle your answer.

[1 mark]

$$f'(7) \neq 0 \qquad f'(7) = 0 \qquad f''(7) \neq 0 \qquad f''(7) = 0$$