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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]

$f'(7) \neq 0$

$f'(7) = 0$

$f''(7) \neq 0$

$f''(7) = 0$