

Question			Answer	Marks	AO	Guidance
6			$\frac{f(x+h)-f(x)}{h} = \frac{2(x+h)^2 + 3 - (2x^2 + 3)}{h}$	M1	2.1	Uses the given function in the formula. Allow a slip eg missing brackets
			$= \frac{2x^2 + 4xh + 2h^2 + 3 - (2x^2 + 3)}{h}$	M1	2.1	Attempt to simplify the numerator
			$= 4x + 2h$	A1	2.1	Correct expression without h in the denominator from fully correct working
			$f'(x) = \lim_{h \rightarrow 0} (4x + 2h) = 4x$	A1	2.1	AG Correct use of limit as $h \rightarrow 0$ with their expression.
				[4]		