

Question	Answer	Marks	AO	Guidance
12 (a)	$\frac{3(a+h)^2+2(a+h)-3a^2-2a}{a+h-a}$ oe	M1	2.1	Using gradient = $\frac{\Delta y}{\Delta x}$ allow a single coefficient error or missing term in the numerator. Condone use of x and h .
	$\frac{6ah + 3h^2 + 2h}{h}$	M1	1.1	Simplifying the numerator to three terms, must follow from their initial numerator. Allow one error involving a single coefficient. Condone use of x and h .
	$= 6a + 3h + 2$ cao	A1 [3]	1.1	Must be in terms of a and h
12 (b)	as $h \rightarrow 0$ $6a + 3h + 2 \rightarrow 6a + 2$	B1ft [1]	2.2a	