Question		n	Answer	Marks	AOs	Guidance	
7			$f(x+h) = x^4 + 4x^3h + 6x^2h^2 + 4xh^3 + h^4$	M1	1.1	Attempt at expansion with product of	
						powers of x and h summing to 4 and	
						some attempt at coefficients, not	
						necessarily correct	
			$\frac{f(x+h)-f(x)}{h} = \frac{4x^3h+6x^2h^2+4xh^3+h^4}{h}$	M1	1.1	Attempt $\frac{f(x+h)-f(x)}{h}$	
						Allow at most two errors	
			$=4x^3 + 6x^2h + 4xh^2 + h^3$	A1	1.1	All terms correct	
			As $h \rightarrow 0$ all the terms in h tend to zero.	A1	2.4	Accept some indication that as h tends	
			f(x+h)-f(x)			to 0, the terms involving h vanish and	
			Therefore $f'(x) = \lim_{h \to 0} \frac{f(x+h) - f(x)}{h} = 4x^3$			leave $4x^3$	
				E1	2.1	Award for good use of language, and	Only requires the two M1 marks
						of limit and function notation	to be awarded.
				[5]			