Question		Answer	Marks	AO	Guidance
7	(a)	$2^3 + 6 \times 2^2 - 2 - 30 = 0$ so $(x - 2)$ is a factor	B1	1.1	Factor theorem must be used, and a concluding statement needed Statement might be at the start e.g $f(2) = 0 \Rightarrow (x - 2)$ a factor
					e.g. Synthetic Division or Long Division is B0
					Must see evidence of the substitution- 'show that' so e.g simply $f(2) = 0$ is B0
			[1]		
7	(b)	$(x-2)(x^2+8x+15)$	M1 A1		By inspection or from long division, allow sign errors only Fully correct linear × quadratic
		(x-2)(x+5)(x+3)	A1	1.1	Fully correct and fully factorised
			[3]		
		Alternatively	M1	1.1a	Allow a slip with either but not both
		f(k) evaluated, where k is -3 and -5			
		(x + 3) or $(x + 5)$ identified as a factor	A1	1.1	
		(x-2)(x+5)(x+3)	A1		