	Question	Answer	Marks	AO	Guidance
6		a=3	B1	1.1b	
		Attempt to divide the cubic by $(x+2)$	M1	1.1a	Allow grid method or long division as far as the linear term of the quotient
		b = -5	A1	1.1b	May be embedded in final expression
		<i>c</i> = 4	A1	1.1b	May be embedded in final expression FT their b
		d = -13	B1	1.1b	May also be found using the remainder theorem. May be embedded in final expression
		$[So f(x) = (x+2)(3x^2 - 5x + 4) - 13]$			Need not be given explicitly if all coefficients seen
		By inspection			
		$f(x) = (x+2)(3x^2 - 5x + 4) - 13$	B1		B1 for <i>a</i> embedded in their expression even if incomplete
			M1		Method may be implied by correct b , or correct FT for c
			A1		b = -5
			A1		c = 4 FT their b with $c = -6 - 2b$
			B1		May also be found using the remainder theorem. May be embedded in their expression
			[5]		

Alternative method a=3 expanding and equating coefficients quadratic term $2a + b = 1$ linear term $2b + c = -6$ constant term $2c + d = -5$	B1 M1	expanding and equating coefficients for at least the quadratic or linear term
b = -5	A1	May be embedded in final expression
<i>c</i> =4	A1	May be embedded in final expression FT their b
d = -13	B1	May also be found using the remainder theorem. May be embedded in final expression
So f(x) = (x+2) $(3x^2 - 5x + 4) - 13$		Need not be given explicitly if all coefficients seen
	[5]	