14	$(4x+1)(x-3)=4x^2-12x+x-3(=4x^2-11x-3)$ $(4x+1)(5x+6)=20x^2+24x+5x+6(=20x^2+29x+6)$ $(x-3)(5x+6)=5x^2+6x-15x-18(=5x^2-9x-18)$		3	M1	for multiplying 2 brackets with at least 3 out of 4 terms correct
	$(5x+6)(4x^2-11x-3)=20x^3-55x^2-15x+24x^2-66x-18$ $(x-3)(20x^2+29x+6)=20x^3+29x^2+6x-60x^2-87x-18$ $(4x+1)(5x^2-9x-18)=20x^3-36x^2-72x+5x^2-9x-18$			M1	(dep) for multiplying the product of the first 2 brackets (ft from the 1st stage) by the 3rd bracket, and getting at least 3 out of 6 or 4 out of 8 terms correct
		$20x^3-31x^2-81x-18$		A1	
	Alternative				
	$20x^3+24x^2-60x^2+5x^2-15x+6x-72x-18$			B2	for at least 6 out of 8 terms correct (B1 for 4 or 5 out of 8 correct terms)
		$20x^3-31x^2-81x-18$		A1	
					Total 3 marks

15		*BDF* = 70°	4	B1	may be marked on diagram
		Alternate segment theorem		B1	reason, the angle between a tangent and a chord is equal to the angle subtended in the alternate segment
		EFB = 180 – (70 + 40) = 70 opposite angles in a cyclic quadrilateral		B1	Angle *EFB* with reason, opposite angles in a cyclic quadrilateral sum to 180°
		CBF = *EFB* alternate angles therefore *EF* is parallel to *ABC*		B1	conclusion, alternate angles are equal
					Total 4 marks