	$12x^3 + 20x^2$	B1		
1	1 Additional Guidance			

2 –2x B1

Q	Answer	Mark	Comme	nt
	$2ax^3 + 2x^2 + 4x - 10$ and $bx^2 + cx$ or $2ax^3 + (2+b)x^2 + (4+c)x - 10$ or 2a = 12 or $a = 6$	M1	oe correct expansions allow $2ax^3 = 12x^3$	
3	2 + b = 7 or $b = 5or 4 + c = 3 or c = -1a = 6$ and $b = 5$ and $c = -1$	M1	oe equation SC2 any two of $a = 6$ and $b = 5$ and c	
Additional Guidar				
	One correct value without working on eg $a=6$ and $b=-5$ and $c=1$ with eg $a=-6$ and $b=5$ and $c=1$ with	vith no working		M1M0A0 M0M1A0
	Condone an incorrect –10 in the expa	ansion if A	A1 is awarded M1M1A1	

Q	Answer	Mark	Commen	ts
	13 <i>x</i> + 22	B2	B1 $15x + 20$ or $-2x + 2$ or $13x + a$ or $bx + 22$, can be any numbers	_
4	Ado	ditional G	Guidance	
	Do not ignore further working for B2 eg $13x + 22 = 35x$			B1
	eg $13x + 22 = 33x$			B1

Q	Answer	Mark	Comments		
	$2x^3 - 18x^2y + 5x^2y - 45xy^2$	M1	exactly 4 terms with 3 correct terms in any order may be seen in a grid implied by $2x^3 - 13x^2y$ with term or $-13x^2y - 45xy^2$ with term	one other	
			terms in any order do not allow if only seen in a	grid	
	Additional Guidance				
	A correct term includes the sign (in a grid allow eg $5x^2y$ for $+5x^2y$)				
5	Condone four correct terms followed by incorrect simplification of x^2y terms, otherwise do not allow further incorrect work eg1 $2x^3 - 18x^2y + 5x^2y - 45xy^2 = 2x^3 + 13x^2y - 45xy^2$ eg2 $2x^3 - 18x^2y + 5x^2y - 45xy^2 = 36x^5y + 5x^2y - 45xy^2$			M1A1 M1A0	
	Allow equivalent fully simplified terms $eg 5x^2y$ may be seen as $5yx^2$				
	For M1 allow coefficients to be incorrectly positioned eg $x^32 - 18x^2y + y5x^2 - 45xy^2$				
	$2x^3 + -18x^2y + 5x^2y + -45xy^2$ has 4 correct terms but needs further simplification to score A1			M1A0	
	Terms must be processed eg do not allow $x^2 \times 2x$ for $2x^3$				

Q	Answer	Mark	Comment
6	$6x^5 + 12x^2$	B1	

Q	Answer	Mark	Comments
7	It is true for all values of x	B1	