Question	Answer	Marks	Guidance
3(a)	$x^3: \binom{5}{3} 3^2 (-ax)^3 [-10 \times 3^2 \times a^3] \text{ or } x^4: \binom{5}{4} 3 (-ax)^4 [5 \times 3 \times a^4]$	M1	Allow for either term, allow sign error and combination notation.
	$x^3: -90a^3$	A1	Allow in the full expansion.
	$x^4:15a^4$	A1	Allow in the full expansion.
		3	

Question	Answer	Marks	Guidance
3(b)	Coefficient of x^4 is $a \times their - 90a^3 + 7 \times their 15a^4 = \begin{bmatrix} =15a^4 \end{bmatrix}$	M1	Must select two appropriate terms only.
	$15 a^4 = 240$	DM1	Reducing to a simple quartic equation in a.
	$\Rightarrow a^4 = 16 \Rightarrow a = 2$	A1	A0 if $a = -2$ is given as a solution.
		3	

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