

Question		Answer	Marks	AO	Guidance
1		$(2a)^4 + 4(2a)^3(-b) + 6(2a)^2(-b)^2 +$	M1	1.1a	Uses the binomial expansion to give at least three terms with descending powers of $2a$ (or a) (condone missing brackets) and ascending powers of $-b$ (or b) so i
		$4(2a)(-b)^3 + (-b)^4$	A1	1.1	At least 3 correct terms in the un-simplified or simplified expression seen
		$= 16a^4 - 32a^3b + 24a^2b^2 - 8ab^3 + b^4$	A1	1.1	All correct and fully simplified
		Alternative method: $(4a^2 - 4ab + b^2)(2a - b)^2$	M1		Expands brackets as far as a quadratic factor seen
		$= 16a^4 - 32a^3b + 24a^2b^2 - 8ab^3 + b^4$	A1 A1		At least 3 correct terms in the fully expanded expression Fully correct
			[3]		