

Question	Answer	Marks	Guidance
1	Commence division and reach partial quotient of the form $x^2 \geq 3x$ or: $x^2 - 3x^2 + 9x^2 - 12x + 27 = (x^2 + 5)(Ax^2 + Bx + C) + Dx + E$ or $Ax^2 + Bx + (5A + C)x^2 + 5Bx + 5C$ and reach $A = 1$ and $B = \pm 3$	M1	$A = 1$ and $B = \pm 3$
	Obtain quotient $x^2 - 3x + 4$	A1	$A = 1$, $B = -3$ [$5A + C = 9$ so $C = 4$; $5B + D = -12$ so $D = 3$; $5C + E = 27$ so $E = 7$] Do not need to state which is which. A pair of incorrect statements "remainder $x^2 - 3x + 4$ " and "quotient $3x + 7$ " score M1A1A0
	Obtain remainder $3x + 7$	A1	
	$ \begin{array}{r} x^2 + 5 \quad x^2 - 3x + 4 \\ \underline{x^2 - 3x^3 + 9x^2 - 12x + 27} \\ \quad \quad \quad x^2 - 3x^3 + 5x^2 \\ \quad \quad \quad \underline{- 3x^3 + 4x^2} \quad - 12x \\ \quad \quad \quad \quad \quad \quad - 12x \\ \quad \quad \quad \quad \quad \quad \quad \quad + 4x^2 + 3x \\ \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad + 20 \\ \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad + 3x + 7 \end{array} $	3	

Question	Answer	Marks	Guidance
2a	State unsimplified term in x , or its coefficient, in the expansion of $(4 - x)^4$	B1	$4^3 \times \frac{1}{2} \times \left(-\frac{1}{4}\right) = -\frac{1}{2}$
	State unsimplified term in x^2 , or its coefficient, in the expansion of $(4 - x)^5$	B1	$4^3 \times \frac{5 \times 4}{2} \times \left(-\frac{1}{4}\right)^2 = \frac{5}{2}$ Allow $(\frac{5}{2})^2$
	Multiply by $(2x - 5)$ and obtain 2 terms in x^2 , allow even if errors in $4^{3/2}$, signs, etc.	M1	Allow unsimplified $2x \cdot 4^{\frac{3}{2}} \times \frac{1}{2} \times \left(\frac{-1}{4}\right)^2 = 5 \cdot 4^{\frac{3}{2}} \times \frac{1 \times -1}{2 \times 4} \times \left(\frac{-1}{4}\right)^2$ Allow $(\frac{1}{4})^2$ $2x \times \frac{1}{2} - 5 \times \frac{1}{4}$ or $2 \times (-1/4) - 5 \times (-1/84)$
	Obtain $-\frac{11}{4}$ or -0.421875 or $-54/128$	A1	Allow in a full expansion up to x^2 , ignore extra terms even if they contain errors
2b	$ x < 4$	4	
		B1	or $-4 < x < 4$
		1	

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