Question Number		Scheme	Marks
1.		$\int \left(2x + 3x^{\frac{1}{2}}\right) dx = \frac{2x^2}{2} + \frac{3x^{\frac{3}{2}}}{\frac{3}{2}}$	M1 A1 A1
		$\int_{1}^{4} \left(2x + 3x^{\frac{1}{2}}\right) dx = \left[x^2 + 2x^{\frac{3}{2}} \right]_{1}^{4} = (16 + 2 \times 8) - (1 + 2)$	M1
		$= 29$ $\qquad\qquad$ (29 + C scores A0)	A1 (5)
			(5 marks)
2.	(a)	$(7 \times \ldots \times x)$ or $(21 \times \ldots \times x^2)$ $\qquad$ The 7 or 21 can be in 'unsimplified' form.	M1
		$(2 + kx)^7 = 2^7 + 2^6 \times 7 \times kx + 2^5 \times \binom{7}{2} k^2 x^2$	
		$= 128, \quad + 448kx, \quad + 672k^2x^2$	B1; A1, A1
		(If $672kx^2$ follows $672(kx)^2$, ignore subsequent working and allow A1)	(4)
	(b)	$6 \times 448k = 672k^2$	M1
		$k = 4$ $\qquad$ (Ignore $k = 0$, if seen)	A1 (2)
			(6 marks)
3.	(a)	$f(k) = -8$	B1 (1)
	(b)	$f(2) = 4 \implies \quad 4 = (6-2)(2-k) - 8$	M1
		So $\qquad\qquad k = -1$	A1 (2)
	(c)	$f(x) = 3x^2 - (2 + 3k)x + (2k - 8) = 3x^2 + x - 10$	M1
		$= (3x - 5)(x + 2)$	M1 A1 (3)
			(6 marks)
4.	(a)	$x = 2$ $\quad$ gives 2.236 (allow AWRT) Accept $\sqrt{5}$	B1
		$x = 2.5$ $\quad$ gives 2.580 (allow AWRT) Accept 2.58	B1 (2)
	(b)	$\left(\frac{1}{2} \times \frac{1}{2}\right)$ $\quad$ $[(0.414 + 3) + 2(1.554 + 1.732 + 1.957 + 2.236 + 2.580)]$	B1,[M1A1ft]
		$= 6.133$ $\quad$ (AWRT 6.13, even following minor slips)	A1 (4)
	(c)	Overestimate	B1
		'Since the trapezia lie above the curve', or an equivalent explanation, or sketch of (one or more) trapezia above the curve on a diagram (or on the given diagram, in which case there should be reference to this). (Note that there must be some reference to a trapezium or trapezia in the explanation or diagram).	B1 (2)
			(8 marks)

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