

**June 2006
6663 Core Mathematics C1
Mark Scheme**

Question number	Scheme	Marks
1.	$\frac{6x^3}{3} + 2x + \frac{x^{\frac{1}{2}}}{\frac{1}{2}} \quad (+c)$ $= 2x^3 + 2x + 2x^{\frac{1}{2}}$ $+c$ M1 for some attempt to integrate $x^a \rightarrow x^{a+1}$ 1st A1 for either $\frac{6}{3}x^3$ or $\frac{x^{\frac{1}{2}}}{\frac{1}{2}}$ or better 2nd A1 for all terms in x correct. Allow $2\sqrt{x}$ and $2x^{\frac{1}{2}}$. B1 for $+c$, when first seen with a changed expression.	M1 A1 A1 B1 Total 4 marks
2.	<u>Critical Values</u> $(x \pm a)(x \pm b) \text{ with } ab=18 \text{ or } x = \frac{7 \pm \sqrt{49 - -72}}{2} \text{ or}$ $\left(x - \frac{7}{2}\right)^2 \pm \left(\frac{7}{2}\right)^2 - 18$ $(x-9)(x+2) \text{ or } x = \frac{7 \pm 11}{2} \text{ or } x = \frac{7}{2} \pm \frac{11}{2}$ Solving inequality $x > 9$ or $x < -2$ Choosing "outside"	M1 A1 M1 A1 Total 4 marks
	1st M1 For attempting to find critical values. Factors alone are OK for M1, $x =$ appearing somewhere for the formula and as written for completing the square 1st A1 Factors alone are OK. Formula or completing the square need $x =$ as written. 2nd M1 For choosing outside region. Can f.t. their critical values. They must have two different critical values. $-2 > x > 9$ is M1A0 but ignore if it follows a correct version. $-2 < x < 9$ is M0A0 whatever the diagram looks like. 2nd A1 Use of $\geq$ in final answer gets A0	

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