Questio		Marks	AOs
2	$x^4 \to x^5$ or $x^{\frac{1}{2}} \to x^{\frac{3}{2}}$ or $-3 \to x$	M1	1.1a
	$x^{4} \rightarrow \dots x^{5} \text{ or } x^{\frac{1}{2}} \rightarrow \dots x^{\frac{3}{2}} \text{ or } -3 \rightarrow \dots x$ Any of $\frac{1}{5}x^{5}$ or $-\frac{6}{\left(\frac{3}{2}\right)}x^{\frac{3}{2}}$ or $-3x$	A1	1.1b
	Any two of $\frac{1}{5}x^5$ or $-\frac{6}{\left(\frac{3}{2}\right)}x^{\frac{3}{2}}$ or $-3x$	A1	1.1b
	$\frac{1}{5}x^5 - 4x^{\frac{3}{2}} - 3x + c$	A1	1.1b
		(4)	
			marks)
Notes			
 M1: For increasing any power by one. Score for xⁿ → xⁿ⁺¹ in any term, including, -3 → x where is a constant, but not for + c. Allow the indices to be unprocessed, e.g., x⁴⁺¹ A1: One correct term which may be unsimplified and indices may be unprocessed. Condone e.g3x¹ or -6/(1/2+1) for this mark. Not scored for + c A1: Two correct terms which may be unsimplified but indices must be processed. 			
A1: ca Ig A D C	Condone $-3x^1$ for this mark. Not scored for $+c$ cao Requires all terms simplified and $+c$ Ignore the LHS i.e. ignore what they call their integral. Allow $0.2x^5$ for $\frac{1}{5}x^5$ and $-4\sqrt{x^3}$ or $-4\sqrt{x^3}$ or $-4x\sqrt{x}$ or $-4x^{1.5}$ for $-4x^{\frac{3}{2}}$ Do not allow $-3x^1$ for this mark. Condone spurious integral signs e.g. $\int \frac{1}{5}x^5 - 4x^{\frac{3}{2}} - 3x + c$ or dx left in their answer ISW after a correct expression seen e.g. if they multiply through by 5 or e.g. try to solve = 0 Do not allow e.g. $\frac{1}{5}x^5 + -4x^{\frac{3}{2}} + -3x + c$		