

Question	Answer	Marks	AO	Guidance	
13	DR $6x^{-\frac{3}{2}} + 2x^{-2}$ seen $\frac{6x^{-\frac{1}{2}}}{-\frac{1}{2}} + \frac{2x^{-1}}{-1}$ oe $-12 \times 8^{-\frac{1}{2}} - 2 \times 8^{-1} - (-12 - 2)$ or $\frac{-12}{\sqrt{8}} - \frac{2}{8} - (-12 - 2)$ $\frac{55}{4} - 3\sqrt{2}$	M1 M1* M1* A1 M1dep* A1 [6]	3.1a 1.1 1.1 2.1 1.1 1.1	allow one slip in one coefficient Two correct indices from their $6x^{-\frac{3}{2}} + 2x^{-2}$ Both indices correct and at least one coefficient correct from their $6x^{-\frac{3}{2}} + 2x^{-2}$ Both terms fully correct Must show substitution of corrects limits into their integrand Accept $\frac{55}{4} - \frac{6}{\sqrt{2}}$ or $\frac{55-12\sqrt{2}}{4}$	ft their $6x^{-\frac{3}{2}} + 2x^{-2}$ for the method marks condone +c