Question	Scheme	Marks	AOs
1	$\int\left(\frac{2}{3}x^3-6\sqrt{x}+1\right)\mathrm{d}x$		
	Attempts to integrate awarded for any correct power	M1	1.1a
	$\int\left(\frac{2}{3}x^3-6\sqrt{x}+1\right)\mathrm{d}x=\frac{2}{3}\times\frac{x^4}{4}+\ldots+x$	A1	1.1b
	$=\ldots-6\frac{x^{\frac{3}{2}}}{\frac{3}{2}}+\ldots.$	A1	1.1b
	$=\frac{1}{6}x^4-4x^{\frac{3}{2}}+x+c$	A1	1.1b
			(4 marks)

Notes

M1: Allow for raising power by one. $x^n \rightarrow x^{n+1}$
Award for any correct power including sight of $1x$

A1: Correct two '**non fractional power'** terms (may be un-simplified at this stage)

A1: Correct '**fractional power'** term (may be un-simplified at this stage)

A1: Completely correct, simplified and including constant of integration seen on one line.
Simplification is expected for full marks.

Accept correct exact equivalent expressions such as $\frac{x^4}{6}-4x\sqrt{x}+1x^1+c$

Accept $\frac{x^4-24x^{\frac{3}{2}}+6x}{6}+c$

Remember to isw after a correct answer.

Condone poor notation. Eg answer given as $\int\frac{1}{6}x^4-4x^{\frac{3}{2}}+x+c$