Question Number	Scheme	Marks
1.	$\int\left(\frac{8}{3}x^3-\frac{1}{2}x^{-\frac{1}{2}}-5\right)\mathrm{d}x=\frac{8}{3}\times\frac{x^4}{4}-\frac{1}{2}\times 2x^{\frac{1}{2}}-5x+c$	M1 A1
	$=\frac{2}{3}x^4-x^{\frac{1}{2}}-5x+c$	A1 A1 **(4 marks)**

M1 For raising a power of x by 1 seen at least once (i.e. $x^n \to x^{n+1}$) or $-5 \to -5x$.
The index does not have to be processed for this mark.
Award following incorrect manipulations eg $-\frac{1}{2\sqrt{x}} \to ...x^{\frac{1}{2}} \to ...x^{\frac{3}{2}}$

A1 For two of $\frac{8}{3}\times\frac{x^4}{4}$, $-\frac{1}{2}\times 2x^{\frac{1}{2}}$, $-5x^1$ correct (unsimplified).
This may be implied by a correct simplified answer. May be seen on different lines. Indices must be processed. Ignore any spurious notation for any of the A marks.

A1 For two of $\frac{2}{3}x^4$, $-x^{\frac{1}{2}}, -5x$ correct and in simplest form. Accept forms such as $\frac{2x^4}{3}$ and $-\sqrt{x}$
Condone $-5x^1$, $-1x^{\frac{1}{2}}$ but not $-\frac{5x}{1}$. Correct terms may be seen on different lines. Allow $\frac{2}{3}$ to be written as $0.\dot{6}$ or 0.6666….. only (must be exact)

A1 Fully correct **on one line**, and simplified with +*c*. Accept simplified equivalents (see above)