Question Number	Scheme	Marks
1	$x^n \to x^{n+1}$ $\int\left(8x^3-6\sqrt{x}-\frac{2}{5x^3}\right)\mathrm{d}x = 2x^4-4x^{\frac{3}{2}}+\frac{1}{5x^2}+c$	M1 A1A1A1
		(4 marks)

M1 Increases the power by one on one of the terms in x

Must be for any one of $x^3 \to x^4$ $x^{\frac{1}{2}} \to x^{\frac{3}{2}}$ $x^{-3} \to x^{-2}$. Indices do not need to be processed for this mark. e.g. $x^3 \to x^{3+1}$ is fine.

A1 One term of $2x^4-4x^{\frac{3}{2}}+\frac{1}{5x^2}$ (may be unsimplified but indices must be processed)

A1 Any two terms of $2x^4-4x^{\frac{3}{2}}+\frac{1}{5x^2}$ (may be unsimplified but indices must be processed). Terms may appear as a list or be on different lines.

A1 $2x^4-4x^{\frac{3}{2}}+\frac{1}{5x^2}+c$ or simplified equivalent (including the constant of integration) all on one line.

e.g. accept $2x^4-4\left(\sqrt{x}\right)^3+0.2x^{-2}+c$ but do not accept $\frac{0.2}{x^2}$ or $\frac{\frac{1}{5}}{x^2}$ for $\frac{1}{5x^2}$

isw once a correct answer is seen but withhold if there is any spurious notation e.g. an integral sign or dx