

Question		Answer	Marks	AO	Guidance
9	(a)	$3x^{-2} + x^{\frac{1}{2}}$	B1 [1]	1.1	cao
	(b)	$y = \int \left(3x^{-2} + x^{\frac{1}{2}} \right) dx$ $y = \frac{3x^{-1}}{-1} + \frac{x^{\frac{3}{2}}}{\left(\frac{3}{2}\right)} (+c)$ When $x = 1, y = -2$ $-2 = -3 + \frac{2}{3} + c$ $c = \frac{1}{3} \text{ so equation is } y = -\frac{3}{x} + \frac{2}{3}x^{\frac{3}{2}} + \frac{1}{3}$	M1* A1FT depM1 A1 [4]	3.1a 1.1 1.1 1.1	Attempts to integrate at least one term. Oe At least one correct term on RHS. FT their negative or fractional (a). Need not be simplified. Condone missing +c Uses given information to attempt to find c Any form. Must have y =