

Question			Answer	Mks	AO	Guidance	
1			In all three parts: Allow unsimplified answers. ISW for incorrect simplification. Ignore incorrect dx and/or $\int$				
1	(a)		$3 + 15x^{-4}$ or $3 + \frac{15}{x^4}$ oe	B1 M1 A1 [3]	1.1 1.1a 1.1	3x correctly differentiated to 3 $kx^{-4}$ oe $15x^{-4}$ or $\frac{15}{x^4}$ oe	ISW eg $5 \times 3x^{-4} = \frac{5}{3x^4}$ M1A1
1	(b)		$-60x^{-5}$ or $-\frac{60}{x^5}$ oe	B1f B1f [2]	1.1a 1.1	zero term stated or implied by absence other term, ft their 2nd term in (a) if includes negative index	or ft their 1st term in (a) ISW
1	(c)		$\frac{3x^2}{2} + \frac{5}{2}x^{-2} + c$ or $\frac{3x^2}{2} + \frac{5}{2x^2} + c$ oe	B1 M1 A1 [3]	1.1 1.1a 1.1	$\frac{3x^2}{2}$ $kx^{-2}$ oe All correct and + c.	ISW