

Question			Answer	Marks	AO	Guidance	
1	(a)		$2x^{-\frac{1}{4}}$	B1 [1]	1.1	Correct expression	Or $2x^{-0.25}$ Could be implied by $p = 2$, $q = -0.25$
1	(b)		125... ... $x^{\frac{9}{2}}$	B1 B1 [2]	1.1 1.1	Obtain 125 Obtain $x^{\frac{9}{2}}$	Could be implied by $p = 125$ Allow $4\frac{1}{2}$ or 4.5 Could be implied by $q = 4.5$ Allow SC B1 if 0 scored but $x\sqrt{x}$ is seen as $x^{\frac{3}{2}}$ oe
1	(c)		4... ... x^4	B1 B1 [2]	1.1 1.1	Obtain 4 Obtain x^4	Could be implied by $p = 4$ Could be implied by $q = 4$ Allow SC B1 if 0 scored but $\sqrt{16x^8}$ seen
1	(d)		$(27x^6)^{\frac{1}{3}} = 3x^2$ $x^5 \times 3x^2 = 3x^7$	M1* M1dep* A1 [3]	1.1 1.1 1.1	Obtain either ax^2 or $3x^b$ Correctly combine x^5 and their $3x^2$ Obtain correct answer	Obtain either ax^7 following their a , or $3x^{(5+b)}$ following their b Could be implied by $p = 3$, $q = 7$