

Indices 1 Answers

1)	14	(a) 1 (b) x^{10} (c) p^{-7} or $\frac{1}{p^7}$	1 1 1	
2)	12	(a) (i) $(x=) 6$ (ii) $(x=) -2$ (b) 3	1 1 1	
3)	12	$\frac{8}{27}$	2	M1 for $1 \div (1\frac{1}{2})^3$ oe or SC1 for $\frac{27}{8}$
4)	9	(a) 6.25 cao (b) 0.16 cao	1 1	
5)	16	$20x^9$ cao	2	B1 for kx^9 or $20x^k$
6)	11	(a) 6561 cao (b) 1	1 1	
7)	18	(a) x^7 (b) $5y^6$	1 2	B1 for $5y^m$ or ky^6 in answer $m \neq 0, k \neq 0$
8)	7	(a) 14 (b) 1296	1 1	

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9)	10	(a) p^7 (b) $4q^6$	1 2	W1 for $4q^n$ or kq^6 $k \neq 0$
10)	12	(a) -3 (b) (i) p^5 (ii) m^{-4} or $\frac{1}{m^4}$	1 1 1	
11)	11	(a) $m^{-2}, \frac{1}{m^2}$ o.e. (b) $5k^6$	1 2	W1 for $5k^n$ ($n \neq 0$) or mk^6 ($m \neq 0$).