1	b		7.1	1	B1	oe

2	(c)		25 or 36	1	B1	One or both of 25 or 36 and no other incorrect value

3	$(4^n =)(2^2)^n$ **or** $(4^n =)2^{2n}$ oe eg $2^k \div 2^{2n} = 2^x$ **or** $2^k = 4^{\frac{1}{2}k}$ **and** $2^x = 4^{\frac{1}{2}x}$ oe eg $\dfrac{4^{\frac{1}{2}k}}{4^n} = 4^{\frac{1}{2}x}$		2	M1	for writing 4^n as $(2^2)^n$ or 2^{2n} or for writing each term in terms of 4 ie $2^k = 4^{\frac{1}{2}k}$ **and** $2^x = 4^{\frac{1}{2}x}$ If these things are seen in working, award this mark even if followed by incorrect working – if not a choice of methods
		$k - 2n$		A1	allow 2^{k-2n}
					Total 2 marks

4	(e)		36	1	B1	

5	(a)		169	1	B1	
	(b)		3	1	B1	

6	(b)		43	1	B1	
	(c)	16 **or** 125		2	M1	for sight of 16 **or** 125
		Correct answer scores full marks (unless from obvious incorrect working)	2000		A1	