Question	Answer	Marks	Partial Marks
11(a)(iii)	Valid explanation e.g. f and f^{-1} are the same or f is self-inverse oe	**B1**	
11(a)(iv)	Valid explanation e.g. The curve is symmetrical about line $y = x$	**B1**	
11(b)	$1 < g \leqslant 2$	**B1**	
11(c)	$x \neq -\frac{1}{3}$	**B1**	
12(a)	$d_A = 3$ and $d_B = -3$	**B2**	**B1** for $d_A = 3$ or $d_B = -3$
	$a_n = 1 + (n - 1) \times 3$ oe, isw or $a_n = 3n - 2$	**B1**	
	$b_n = 298 + (n - 1) \times (-3)$ oe, isw or $b_n = -3n + 301$	**B1**	
	Solves $3n - 2 - (-3n + 301) = 45$ oe to find a value of n	**M1**	**FT** *their* $a_n - (-3n + 301)$ or $3n - 2 -$ *their* b_n
	$n = 58$	**A1**	
12(b)	$3m - 2 * 2(-3m + 301)$ oe where * is = or any inequality sign	**M1**	**FT** *their* a_n and *their* b_n from part **(a)**
	m * 67.1[11…] where * is = or any inequality sign	**A1**	
	68	**A1**	

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