11	(a)	The	one-one function f is defined by $f(x) = (x-3)^2 - 1$ for $x < a$, where a is a constant.	
		(i)	State the greatest possible value of <i>a</i> .	1]
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		(ii)	It is given that a takes this greatest possible value. State the range of f and find an expression for $f^{-1}(x)$.	on 3]
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(b)	The	function g is defined by $g(x) = (x-3)^2$ for $x \ge 0$.
	(i)	Show that $gg(2x)$ can be expressed in the form $(2x-3)^4 + b(2x-3)^2 + c$, where b and c are constants to be found. [2]
	(**)	
	(11)	Hence expand $gg(2x)$ completely, simplifying your answer. [4]