9	The functions f and g are defined by		
	$f(x) = x^2 - 4x + 3$ for $x > c$ , where c is a constant,		
	$g(x) = \frac{1}{x+1}  \text{for } x > -1.$		

(a)	Express $f(x)$ in the form $(x - a)^2 + b$ .	[2]
It is	given that f is a one-one function.	
	State the smallest possible value of $c$ .	[1]

It is now given that c = 5. (c) Find an expression for  $f^{-1}(x)$  and state the domain of  $f^{-1}$ . [3] ..... (d) Find an expression for gf(x) and state the range of gf. [3] .....