3	The function f is defined by $f(x) = (x-3)^2 - 17$ for $x \ge k$, where k is a constant.		
	(a)	Given that $f^{-1}(x)$ exists, state the least possible value of k .	[1]
	(b)	Evaluate ff(5).	[2]
	(c)	Solve the equation $f(x) = x$.	[3]

(d) Explain why your solution to part (c) is also the solution to the equation $f(x) = f^{-1}(x)$.