3	$f(x) = 3x^2 + 6x + 7$	
	Given that $f(x)$ can be written in the form $A(x + B)^2 + C$, where A, B and C are rational numbers,	
	(a) find the value of A , the value of B and the value of C .	(3)
	(b) Hence, or otherwise, find	
	(i) the value of x for which $\frac{1}{f(x)}$ is a maximum,	
	(ii) the maximum value of $\frac{1}{f(x)}$.	(2)

Question 3 continued			
	(Total for Question 3 is 5 marks)		

