$f(x) = 2x^2 + 4x + 9$

Given that f(x) can be written in the form $A(x+B)^2 + C$, where A, B and C are integers,

(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 $\frac{1}{f(x)}$



Question 2 continued	
	(Total for Question 2 is 5 marks)

