$y = \frac{x^2 - x + 1}{x^2 + x + 1}$ 

is 3, and the minimum is  $\frac{1}{3}$ .

of your drawing.

- (a) If x is real, show that the maximum value of

(b) Draw the graph of y from the previous part as a function of x. Explain the key steps

[5]