

# ZCA 110 Kalkulus dan Aljabar

Semester I, Sessi 2005/06

QUIZ 5 (19 August 2005)

Nama:

No. Kad Matriks:

Kumpulan Tutorial:

[total 2+2+2+3 marks = 9 marks]

(a) State, if exist, the point(s) of inflection in  $f(x) = x^3 + 2x^2 - 4x - 8$ . [2 marks]

pg 139, Supp. Problem 11(c)

ANS: Inflection point at  $x = -2/3$

(b) Examine the concavity of the function in (a) [2 + 2 marks]

ANS: Concave upward for  $x > -2/3$ ; Concave downward for  $x < -2/3$

(c) Sketch the curve of  $y = a^2(x - b^2)^2 + c^2$ . You must label the important points on your sketch. [3 marks]

$a, b, c$  are real constants.

My own question

Solution

