MATH116: QUIZ-IV

Name:
Student Number:
Section: 01
Date: July 2, 2010

Question
A double integral is given as follows:

$$I = \int_1^{\sqrt{6}} \int_{\sqrt{1-x^2}}^{\sqrt{6-x^2}} \frac{dy\,dx}{\sqrt{1+8(x^2+y^2)}}$$

a) Sketch the integration region b) evaluate the double integral

Solution: a) There is no well defined integration region b) If you integrate the above integral the result will not be a real number