

Math 302

Quiz 3

24/ 10/ 2011

Name:

ID #

Problem 1. (4 points): Find the length of the curve C given by

$$C = \{(t, 3, 2t^{3/2}), 0 \leq t \leq 2\}$$

Problem 2 : (6 points): Is

$$A = \begin{pmatrix} -1 & -3 & 1 \\ 0 & 1 & -1 \\ -2 & -4 & 0 \end{pmatrix}$$

diagonalizable? (justify your answer)