MATH 133: Vectors, Matrices and Geometry

Written Assignment 1

Due in tutorial or by Friday 1pm the week of Sept 22, 2003

Write the name of the tutor and tutorial section number
in the top right corner of the first page

Justify all of your assertions

Problem. Using the properties of inner products, prove that the diagonals of a parallelogram are orthogonal if and only if the sides of the parallelogram are equal in length.