

HOMEWORK 2, MATH 247 - FALL 2011

Problem A: Consider the $n \times n$ square array of points in the plane $S = \{(i, j) \mid 0 \leq i, j < n\}$ where $n > 1$. Is it possible to draw a path consisting of line segments between the points in this array such that the path meets and changes direction at every point in S , and such that no two line segments making up the path have the same length.