

AMath Tea Time — Puzzle #5

28 April 2015

Problem

In a faraway land there are many cities. The citizens of each city construct a road that connects their city to their nearest neighbor. Assume that the distances between any pair of cities are all unique.

Prove that it is impossible for any city to have more than five roads leading into/out of it.



Hints

If you have any puzzles to share then send them my way at cswiercz@uw.edu!