

Mathematics 2260H – Geometry I: Euclidean geometry

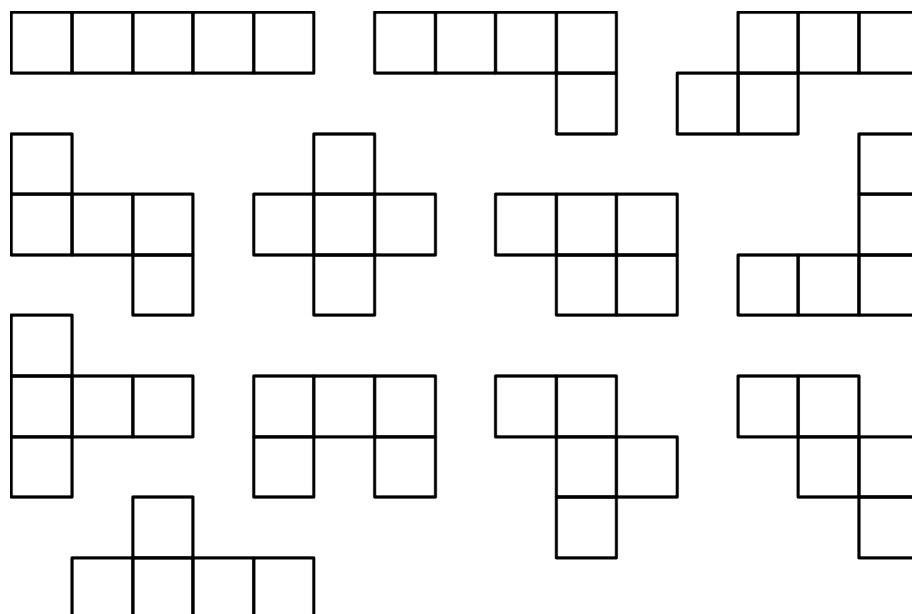
TRENT UNIVERSITY, Winter 2024

Assignment #11

Pentominoes or Pentominos?

Due just before midnight on Friday, 5 April.*

Pentominoes are the shapes you get by sticking together five squares edge to edge without any other overlap. There are twelve distinct pentominoes if one is allowed to rotate and flip them:



1. Show that there is a periodic tiling of the plane that uses all twelve pentominoes. (You may rotate and flip as you deem necessary.) [10]

* You should submit your solutions via Blackboard's Assignments module, preferably as a single pdf. If submission via Blackboard fails, please submit your work to your instructor by email or on paper.