

Math3105

Homework 6

Due next week in class

Homework Assigned:

1. Make a three-sided creative "tile" and tessellate a page of paper with it.
2. For Penrose tiles, draw all seven ways to create a vertex with kites and darts.
3. Create your own Penrose tile design.
4. Prove that the diagonals of a rectangle bisect each other.
5. Prove that the diagonals of a rhombus are perpendicular to one another.

Here are some useful links for Penrose tile information.

<http://www.scienceu.com/geometry/articles/tiling/penrose.html>

<http://www.spsu.edu/math/tile/aperiodic/penrose/penrose1.htm>

<http://goldennumber.net/penrose.htm>