

Quiz #1 MGF1107
Covers 4.1, 4.2

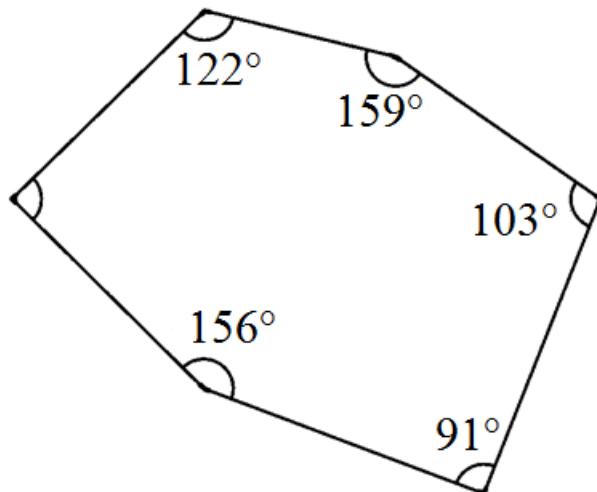
Name _____
Times/Days attend class _____
Date _____

Provide all of your work and answers in the spaces provided. However, you may attach additional work if you want to. **Show all work for full credit.** Your submitted quiz should *not* be a rough draft. You are allowed to seek out help from the Math Support Center, study groups, and/or the class instructor, but you must submit only your own work: do not copy! Remember, even though you may work with other people, you are graded individually. Write up your final draft by yourself and in your own style. Your work/responses must be your own. There are two printed pages to this quiz.

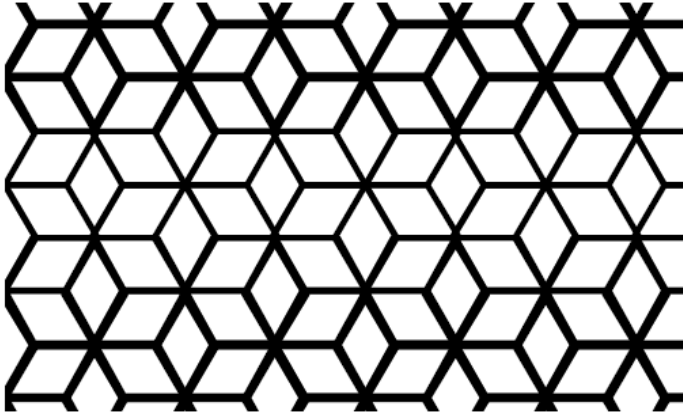
1. (3 pts.) Is the figure below a polygon? Why or why not?
Show on the figure your reasoning.



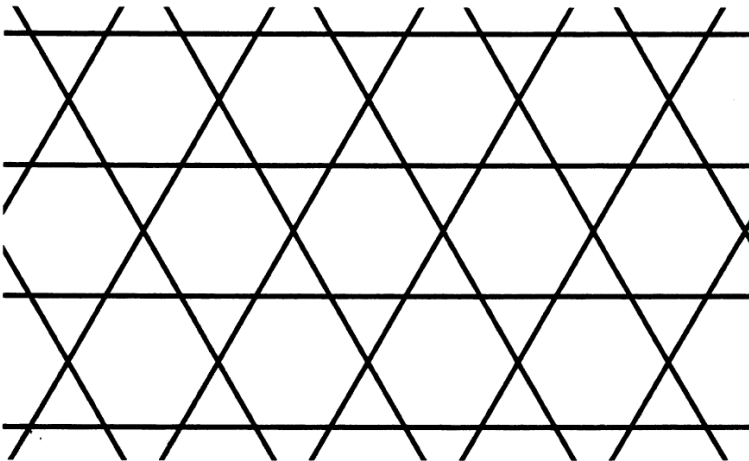
2. (6 pts. total) Consider a regular 30-sided polygon.
- What is the size of its interior angle?
 - The perimeter of a polygon is the entire length around its border. If one side of the 30-sided polygon has length 2 meters then what is the perimeter?
3. (6 pts.) Measures of five of the six angles in the polygon below are given. Find the measure of the remaining angle.



4. (5 pts.) In the tiling below, label all of the different vertex types using the letters A, B, C, etc. (do not include vertices on the outer edge of the picture). You only need to label one vertex for each vertex type. Then describe the different vertex types with the format used in class.



5. (5 pts.total) Consider the tiling below.



- State the polygon types in the tiling that are convex.
- Why is this tiling not a regular tiling?
Explain your answer using appropriate vocabulary from the definition of a regular tiling.