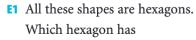
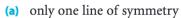
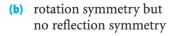
Quiz 08, MAT115R, Spring 2025

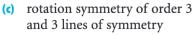
Name:

#1 (2 pts) To the left of each letter (e.g. (a)), write the correct letter of the shape satisfying the requirements:

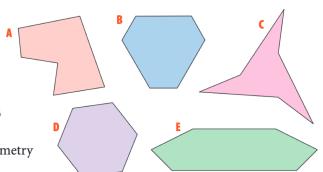








(d) no reflection or rotation symmetry

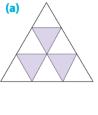


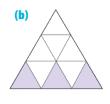
#2 (3 pts): Add the appropriate lines of symmetry to each diagram, and write the order of rotation (e.g. "R2") to the left of each figure:

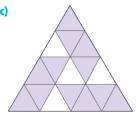
C1 For each design below

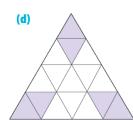
(i) write down how many lines of symmetry it has

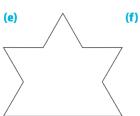
(ii) write down the order of rotation symmetry

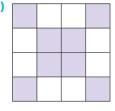


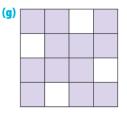


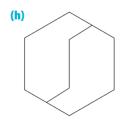






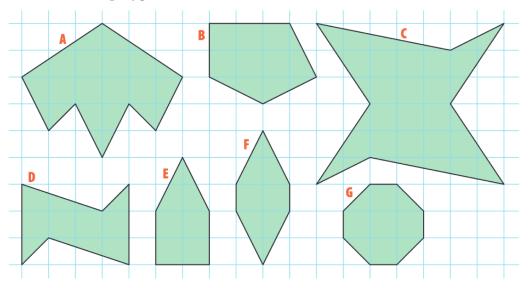






#3 (2 pts): To the left of each letter (e.g. (a)), write the correct letter of the shape satisfying the requirements:

E2 Here are some polygons.



Which of these polygons is

- (a) a pentagon with reflection symmetry
- (b) an octagon with reflection symmetry but no rotation symmetry
- a hexagon with rotation symmetry but no reflection symmetry
- (d) an octagon with rotation symmetry but no reflection symmetry

#4 (3 pts) Draw and identify the duals of the Platonic solids represented by these two-dimensional projections:

