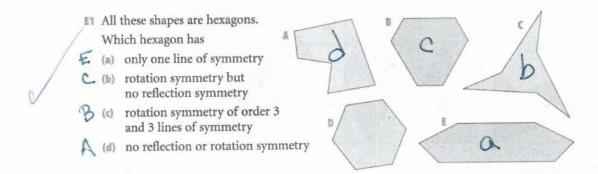
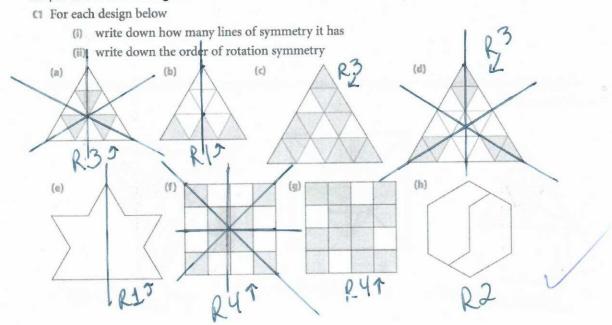
## Quiz 07, MAT115, Spring 2024

Name:

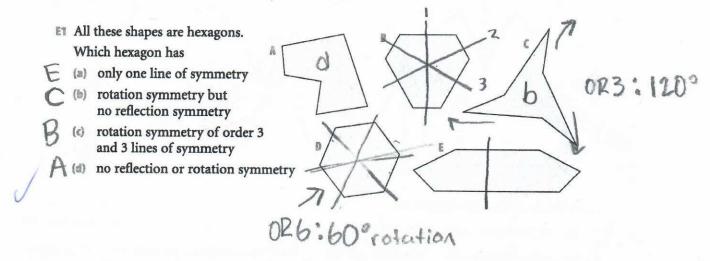
#1 (2 pts) To the left of each letter (e.g. (a)), write the correct letter of the shape satisfying the requirements:



#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:



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



#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:

(1) For each design below

write down how many lines of symmetry it has

write down the order of rotation symmetry

OR 3: 120

Lines: 3

Lines: 3

Lines: 3

OR 2: 180

Lines: 1

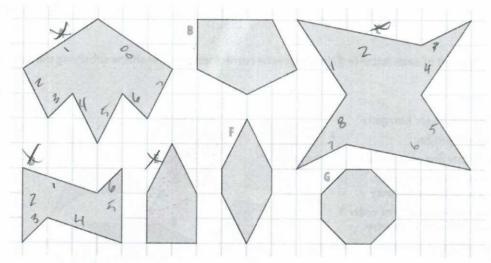
OR 4: 90

Lines: 0

Nicorle!

#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.

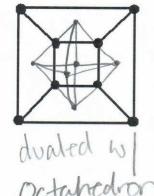


Which of these polygons is

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



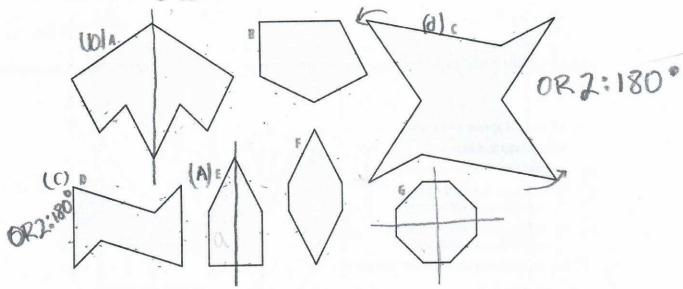




dualed w/ cube/hexahedron

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

Here are some polygons.



Which of these polygons is

(a) a pentagon with reflection symmetry

- pentagon - 5 sides

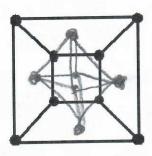
A (b) an octagon with reflection symmetry but no rotation symmetry

a hexagon with rotation symmetry but no reflection symmetry hexagon - 6 sides

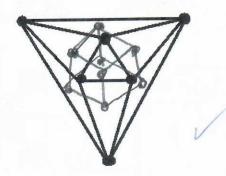
(d) an octagon with rotation symmetry but no reflection symmetry

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





Cube and Octvaredron



Octranedron and cube