

1.6 - Polygons

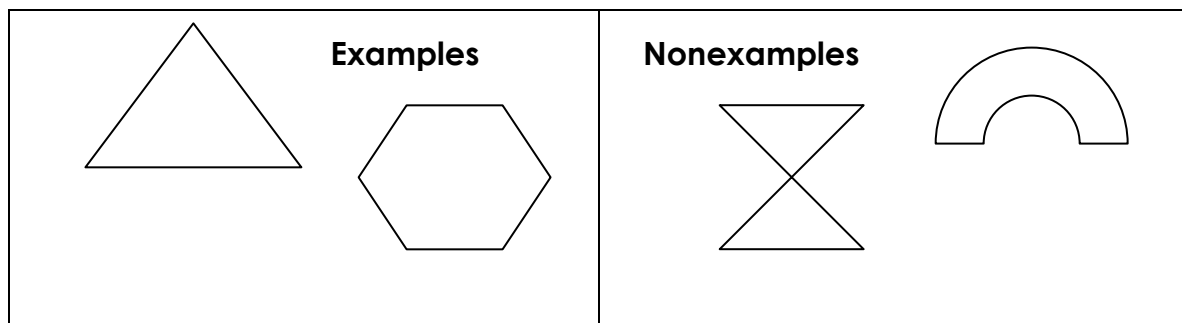
Goal Aligned to Common Core State Standards:

You will identify, name, and describe polygons.

Polygons

- A figure whose sides are all segments.

- (1) Closed figure
- (2) Lines, not curves
- (3) Can't cross lines, just connect at endpoints



Two types:

Concave *extend lines, crosses interior*

Convex

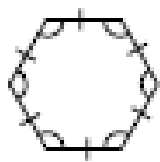
*no X
(doesn't cross
in interior of
shape)*

Names:

- Classified by their side
- A polygon with n sides is a n -gon.
- **Equilateral** Polygon: \cong sides
- **Equiangular** Polygon: \cong angles
- Convex polygon that is equilateral and equiangular is a * regular *.

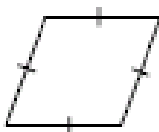
Ex: Name each polygon by its number of sides. Then classify it as *concave* or *convex* and *regular* or *irregular*.

1)



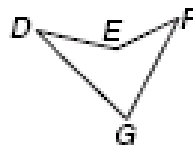
hexagon
convex
regular

2)



quadrilateral
convex
irregular

3)



quadrilateral
concave
irregular

Goal Aligned to Common Core State Standards:

You can identify, name, and describe polygons.

Homework:

1.6/ Review

pg. 61 #11-14,

pg. 78 #17,19, 32,33,

pg. 81 #1-3, 5, 14,

pg. 969-970 1.1 #4, 1.4 #12, 1.5 #2, 4,

pg. 42 #37, 39,

look @ pg. 51 #14, distance & midpoint task homework, vertical angles task