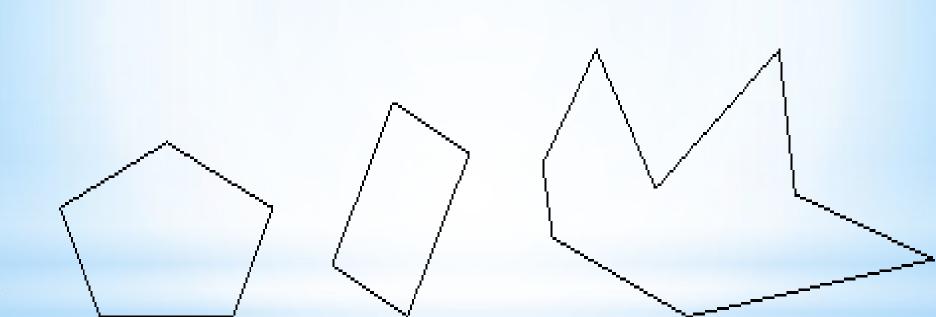
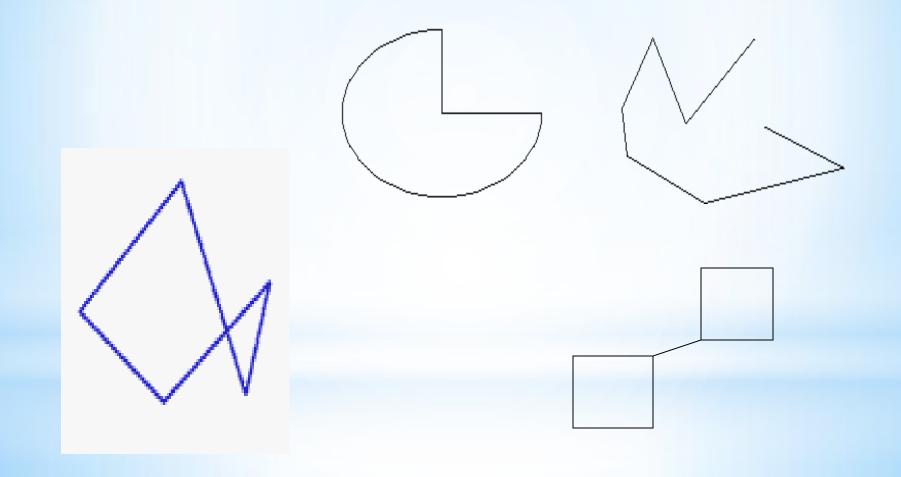
# Polygons

## Are these figures polygons? Why?



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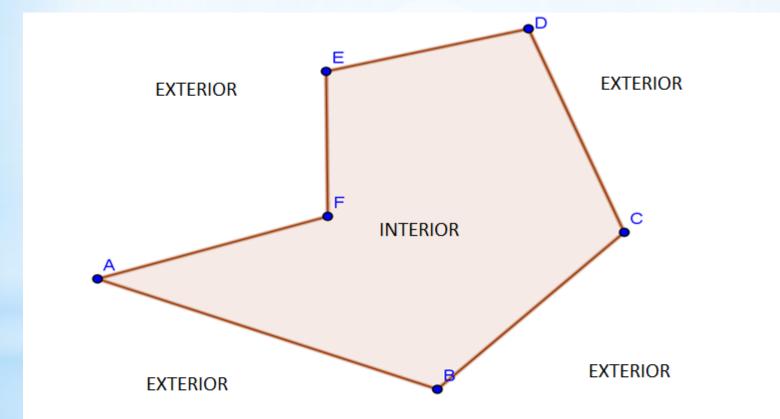
#### two-dimensional object

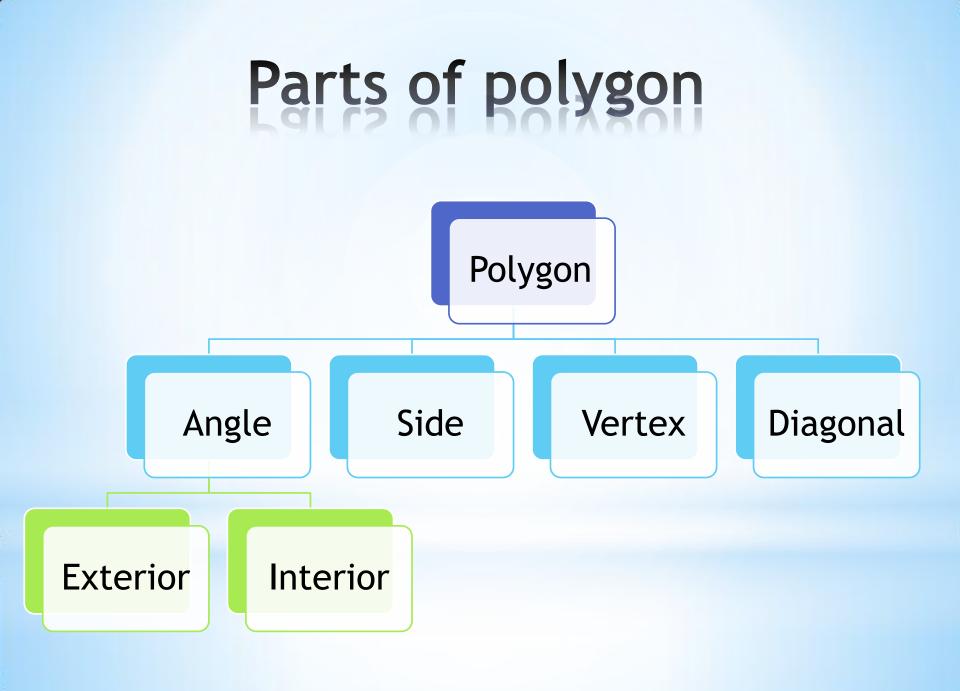
#### Polygon

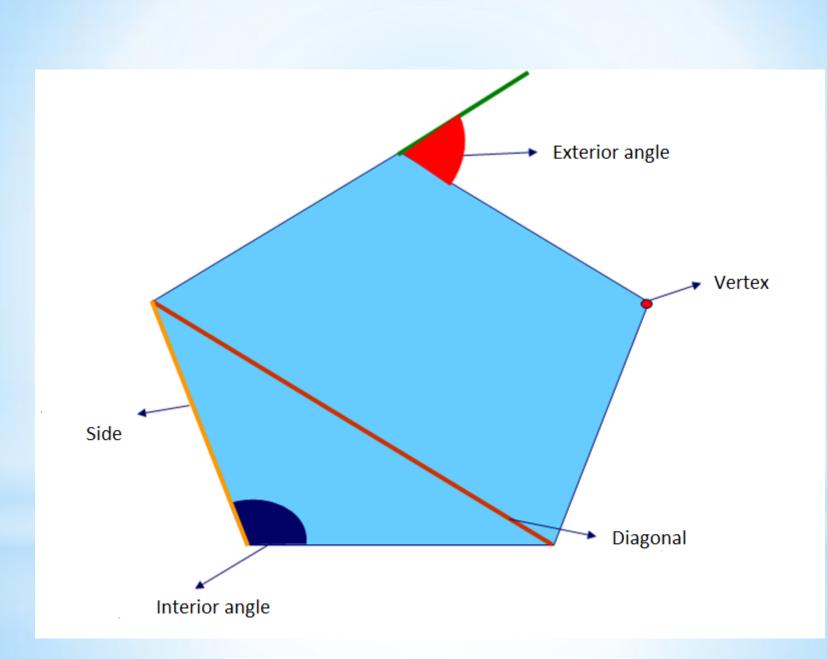
finite chain of closed, straight line

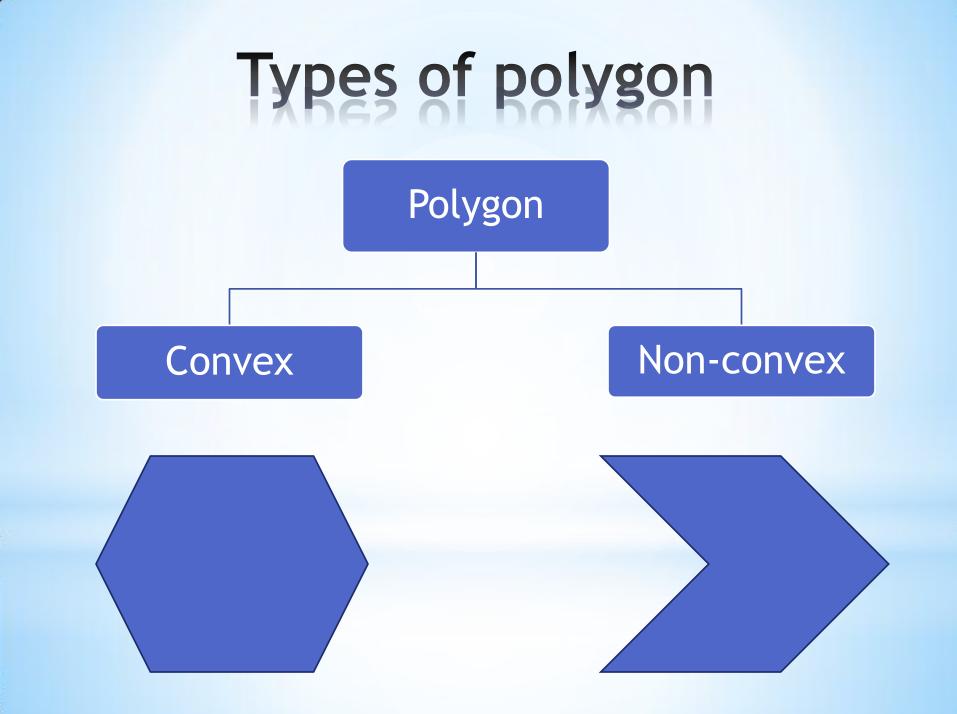
#### no selfintersecting

### Interior and exterior of a polygon.

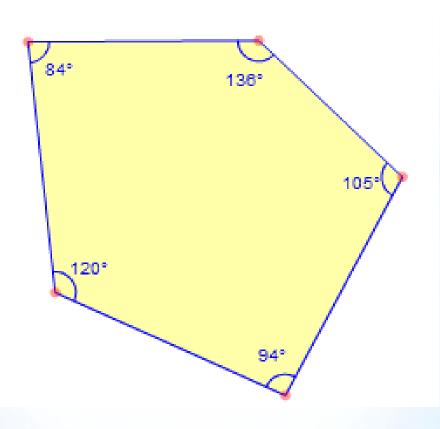


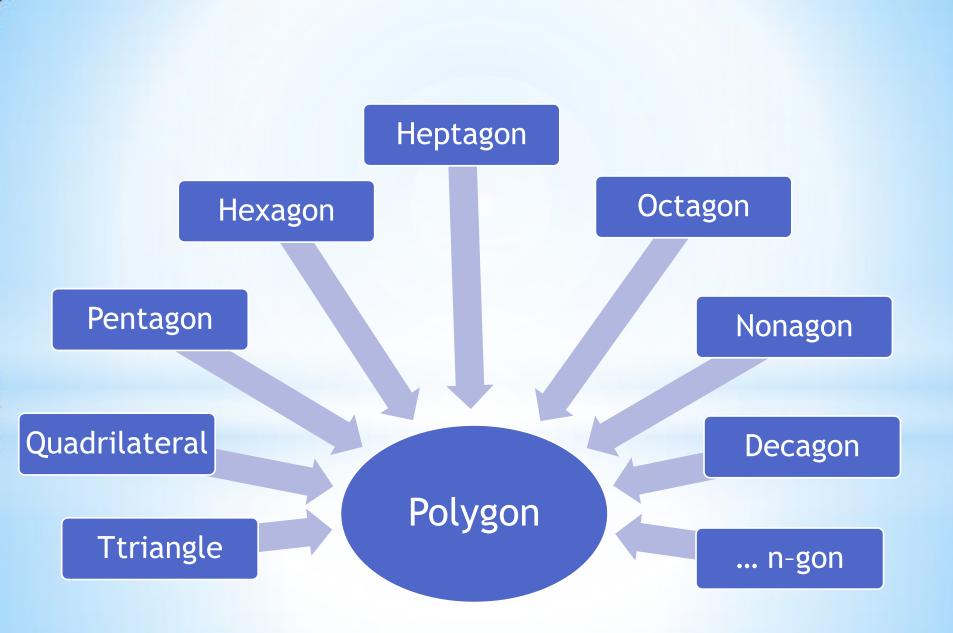


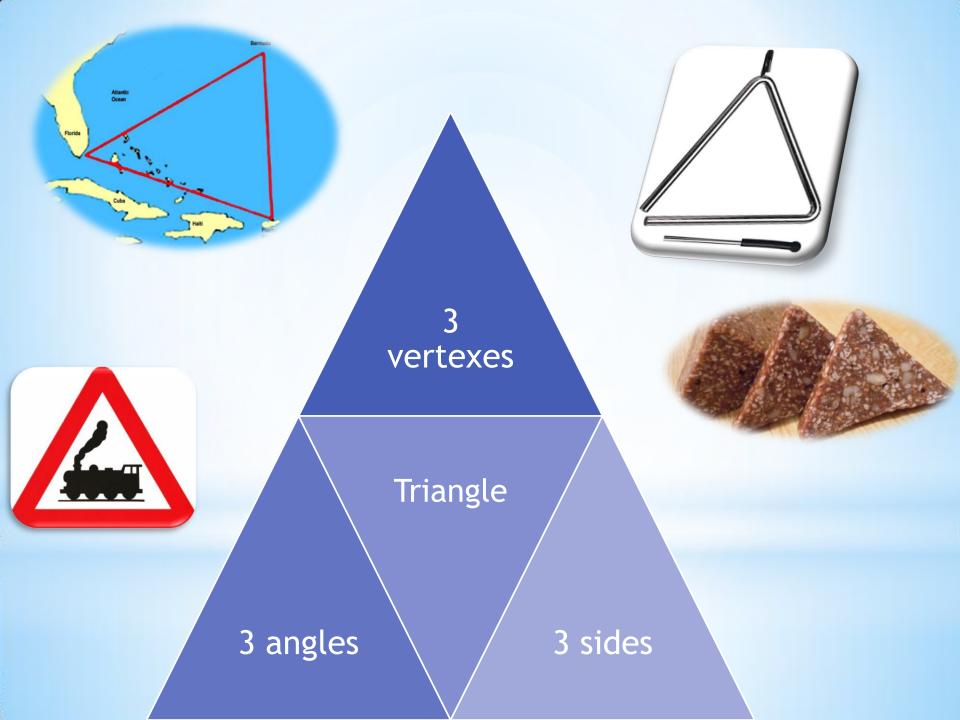


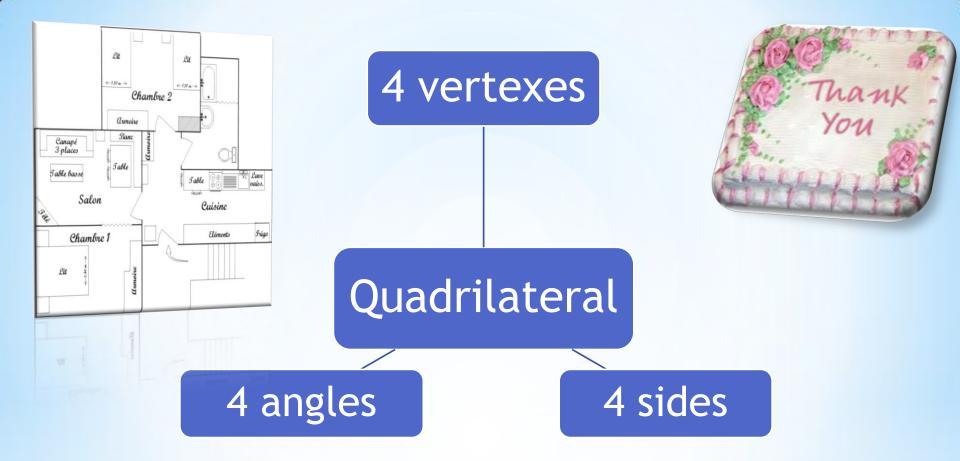


#### A convex polygon is defined as a polygon with all its interior angles less than 180°.













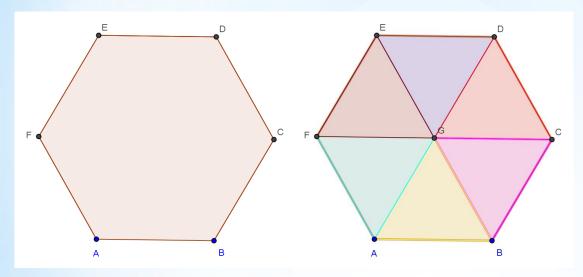


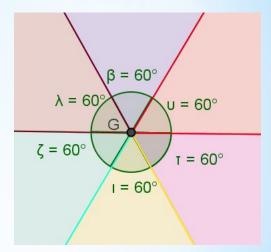


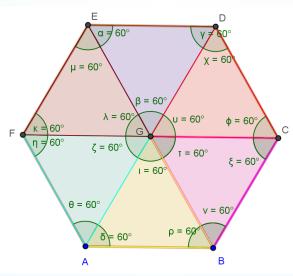




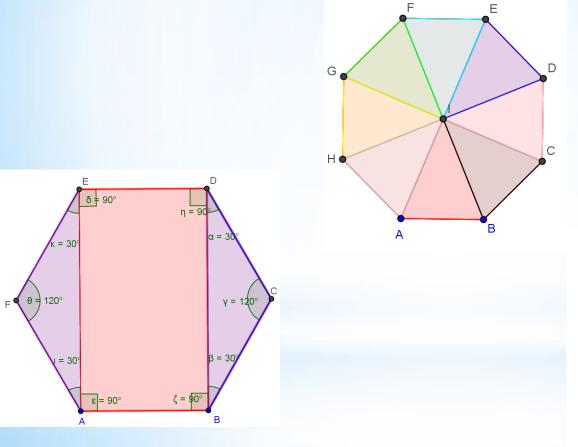
### Dividing polygon(example: hexagon)

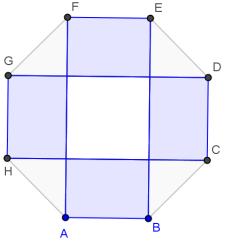


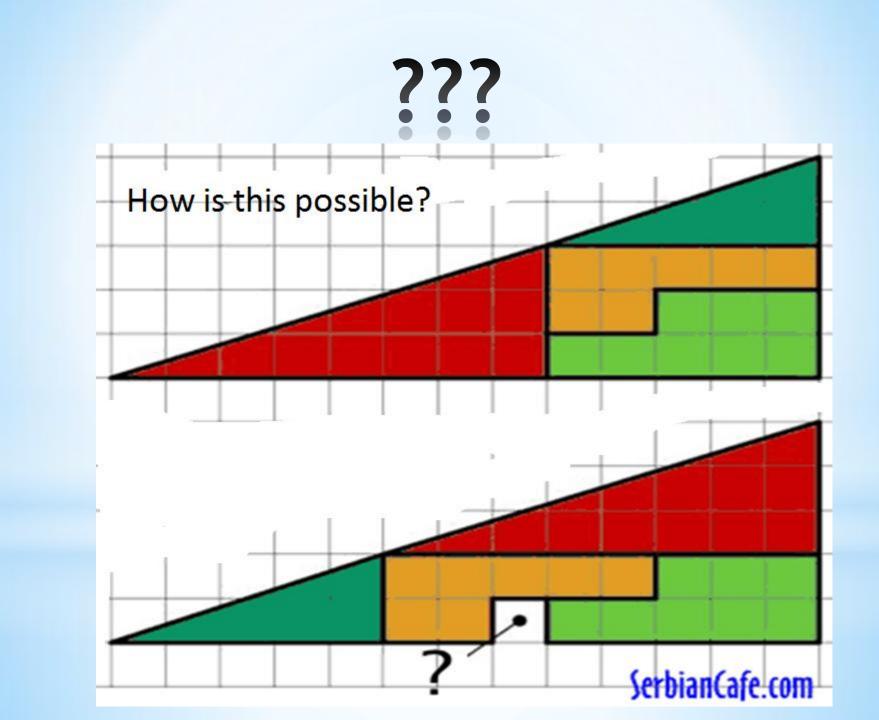




### Other way to divide figures:

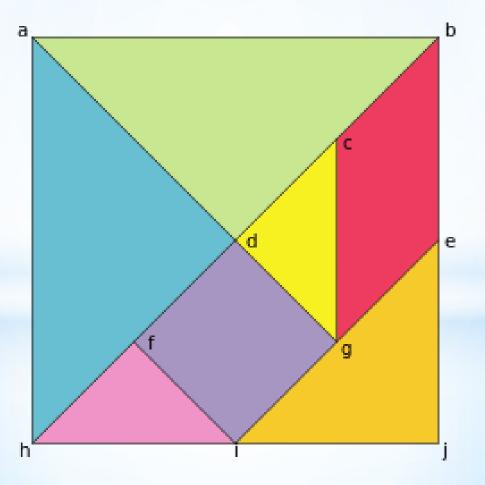








The tangrams a dissection puzzle consisting of seven flat shapes, called *tans*, which are put together to form shapes.



## What can you make with tans:





#### Mosaic is the art of creating images with an assemblage of small pieces of colored glass, stone, or other materials.



## Some other mosaics:





