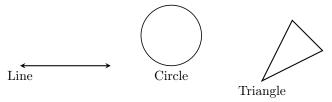
A DEFINITIONS

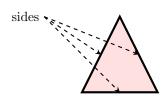
Definition Plane Geometry _

Plane Geometry is the study of flat shapes that you see in pictures or on paper. These shapes include lines, circles, triangles, squares, and rectangles. They are called flat because they have only length and width.



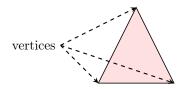
Definition Side -

A side is a straight line on a shape.



Definition

A **vertex** is a point where two sides meet.



B POLYGONS

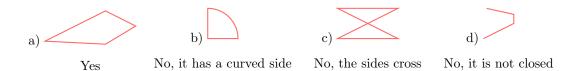
Definition Polygon

A polygon is a flat shape that is closed, has only straight sides, and has sides that do not cross each other.

Ex: Look at the shapes below. Decide if each one is a polygon.

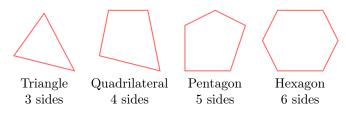


Answer:



Definition Classification of Polygons -

A polygon is named by the number of sides it has. Here are some common polygons:



Definition Regular Polygon __

A regular polygon has all sides the same length.







Equilateral Triangle

Square

Regular Pentagon

Definition Rectangle ____

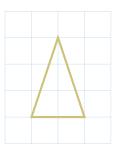
A rectangle is a quadrilateral with the opposite sides are equal in length.



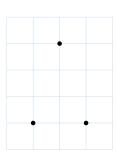
C DRAWING SHAPES ON GRAPH PAPER

Method Reproducing a Shape on Graph Paper

To reproduce this shape on graph paper :



1. Place the vertices: Choose a starting vertex of the original shape. Count the grid squares to position the other vertices relative to the first one, keeping the same distances and directions as the original shape.



2. Draw the edges: Use a ruler to connect the vertices with straight lines in the same order as the original shape.

