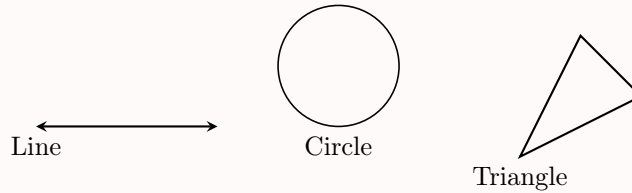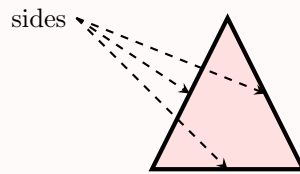# SHAPES

A PLANE GEOMETRY

> **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. We call them flat because they have length and width, but no thickness.
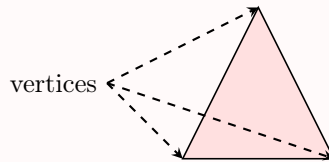>
> Line   Circle   Triangle

> **Definition Side**
>
> A **side** is a straight edge of a shape.
>
> sides

> **Definition Vertex**
>
> A **vertex** (more than one: *vertices*) is a point where two sides meet.
>
> vertices

B CLASSIFICATION

> **Definition Classification**
>
> We can **classify** shapes by looking at how many sides and vertices they have. The table below shows some common flat shapes.
>
> | Name | Shape | Number of sides | Number of vertices |
> |---|---|---|---|
> | Circle | | 0 | 0 |
> | Triangle | | 3 | 3 |
> | Square | | 4 (all the same length) | 4 |
> | Rectangle | | 4 (2 long, 2 short) | 4 |