15. Understanding Shapes-I Polygons
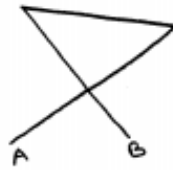
Understanding shapes-1 (Polygons).
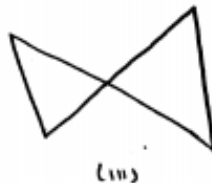
Exercise-15.1.

1> (i) open-curve:

A curve which does not cut itself is called an open curve.

(ii) closed curve:-

A curve which cuts itself is called a closed curve.

2). open curves : (i) , (iv) and (v).

closed curves : (ii) , (III) and (vi).

3.

4. (i)

(ii)

(iii) Not Possible.

[A Polygon has more than two Lines and followed by the words.

(i) no two Line segments intersect intersect except at their end points.

(ii) no two Line segments with a common end points are coincident

5) (i) simple closed curve and a concave Polygon

(ii) simple closed curve and a convex polygon

(iii) Not a curve hence it is not a polygon

(iv) Not a curve hence it is not a polygon

(v) simple closed curve but not a Polygon

(vi) simple closed curve but not a polygon

(vii) simple closed curve but not a polygon

(viii) simple closed curve but not a polygon

6) (i) A convex quadrilateral have two digonals

(ii) A regular hexagon have nine diagonals.

(iii) none.

7) (i) Equilateral triangle

(ii) Rhombus.

(iii) Regular hexagon.