

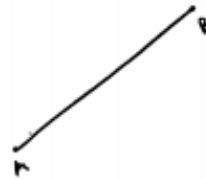
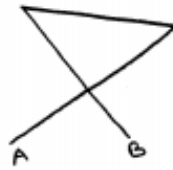
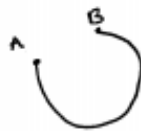
15. Understanding Shapes-I Polygons

Chapter-15. Understanding Shapes-I (Polygons).

Exercise-15.1.

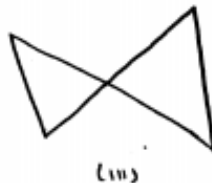
1> (i) open-curve:

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).

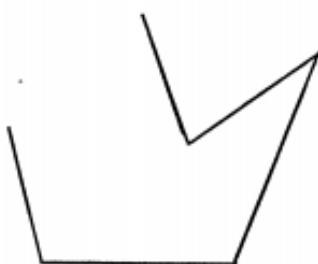
3.



4. (i)



(ii)



(iii) Not possible.

[A polygon has more than two lines and followed by the words.

- (i) no two line segments intersect 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 diagonals
(ii) A regular hexagon have nine diagonals.
(iii) none.

- ⑦ (i) Equilateral triangle
(ii) Rhombus.
(iii) Regular hexagon.