Exercise 10.3

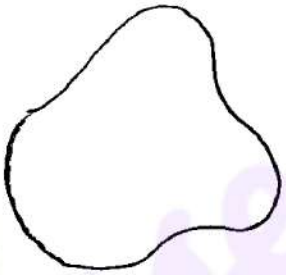
Q.1 Draw rough diagram to illustrate the following:

(i) Open curve (ii) Closed curve.

Solution: (i) Open curve



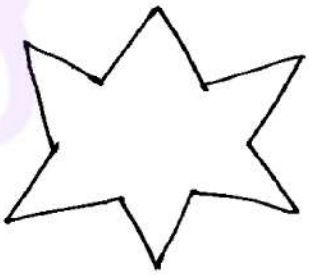
(ii) Closed curve:



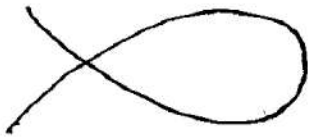
Q.2 Classify the following curves as open or closed.



(i)



(ii)



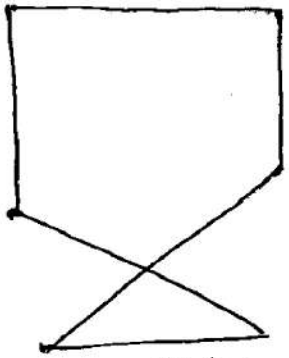
(iii)



(iv)



(v)



(vi)

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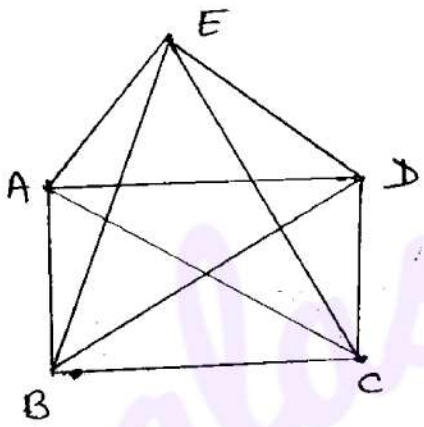
Solution (i) open curve (ii) closed curve

(iii) closed curve (iv) open curve

(v) open curve (vi) closed curve.

Q3 Draw a polygon and shade its interior. Also draw its diagonals, if any.

Solution:



Here, AB, BC, CD DE and AE are sides of polygon.

also, BE, EC, AD, BD, AC are diagonals.

Q.4 Illustrate, if possible, each one of the following with a rough diagram.

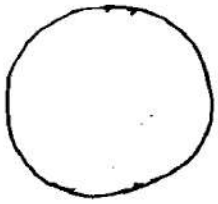
(i) A closed curve that is not a polygon

(ii) An open curve made up entirely of line segments

(iii) A polygon with two sides.

Sol: (i) Circle is a closed curve but not polygon.

(ii)



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(ii) 

(iii) A polygon with two sides is not possible.

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