

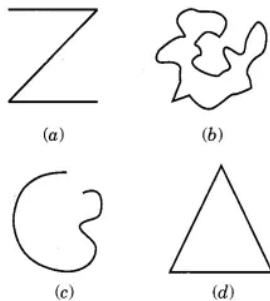
Board –CBSE

Class – 6<sup>th</sup>

Topic – Basic Geometrical Ideas Ex:4.2

### Exercise – 4.2

**Q1.** Classify the following curves as (i) open or (ii) closed.



**Sol.** (a) Open curve  
(b) Closed curve  
(c) Open curve  
(d) Closed curve

**Q2.** Draw rough diagrams to illustrate the following:

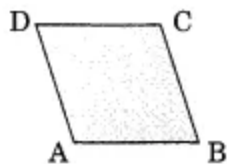
- (a) Open curve
- (b) Closed curve

**Sol.**



**Q3.** Draw any polygon and shade

**Sol.** ABCD is the required polygon whose interior region is shaded.



**Q4.** Consider the given figure and answer the questions.

- (a) Is it a curve?
- (b) Is it closed?



- Sol.** (a) Yes, it is a curve.  
(b) Yes, it is a closed curve.

**Q5.** Illustrate, if possible, each one of the following with a rough diagram:

- (a) A closed curve that is not a polygon.  
(b) An open curve made up entirely of line segments.  
(c) A polygon with two sides.

- Sol.** (a) The required closed curve is a circle.  
(b) ABCD is the required open curve.  
(c) A polygon with two sides is not possible.

