

EXERCISE 4.2

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1. Classify the following curves as (i) Open or (ii) Closed



Solutions:

- (a) The given curve is an open curve
- (b) The given curve is closed curve
- (c) The given curve is open curve
- (d) The given curve is closed curve
- (e) The given curve is closed curve

2. Draw rough diagrams to illustrate the following:

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

Solutions

- (a) The below figure is the open curve



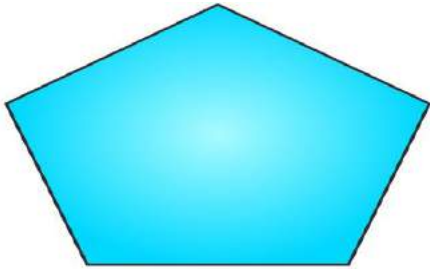
- (b) The below figure is the closed curve



3. Draw any polygon and shade its interior.

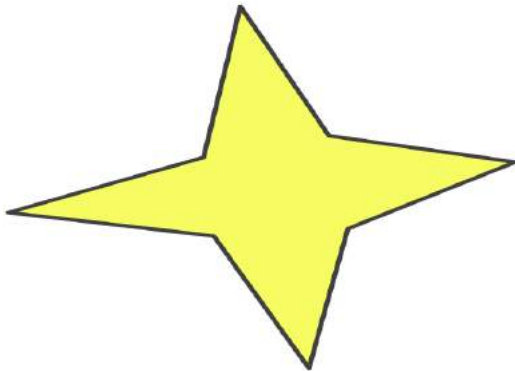
Solutions:

The below figure is the polygon with interior shade



4. Consider the given figure and answer the questions:

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



Solutions:

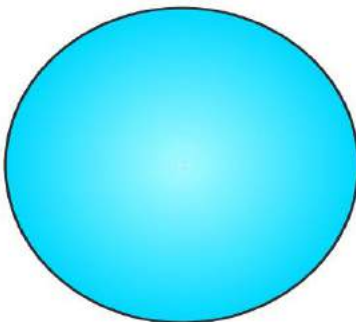
- (a) Yes, it is a curve
- (b) Yes, it is closed curve

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

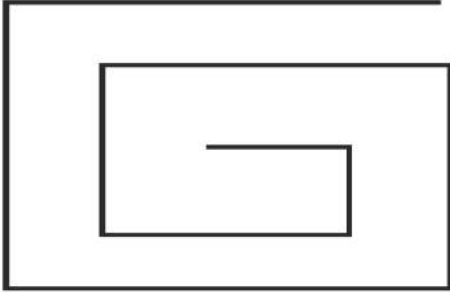
- (a) A closed curve that is not a polygon.
- (b) An open curve made up entirely of line segments.
- (c) A polygon with two sides.

Solutions:

- (a) The below figure is the closed figure but not a polygon



(b) The below figure is an open curve made up entirely of line segments



(c) No its not possible, as the polygon having least number of sides is a triangle which has three sides.

