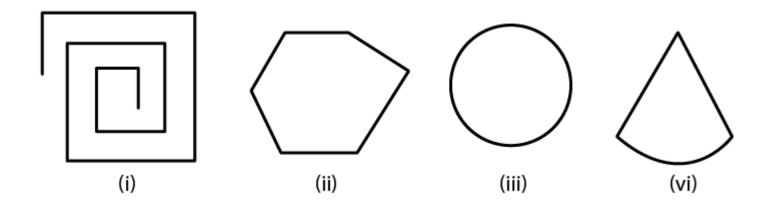
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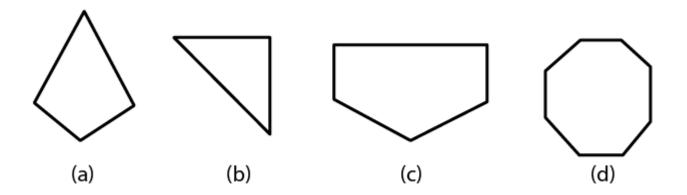
EXERCISE 5.8

1. Examine whether the following are polygons. If any one among them is not, say why?



Solutions:

- (i) It is not a closed figure. Hence, it is not a polygon.
- (ii) It is a polygon made of six sides
- (iii) No it is not a polygon because it is not made of line segments.
- (iv) It is not a polygon as it is not made of line segments.
- 2. Name each polygon.

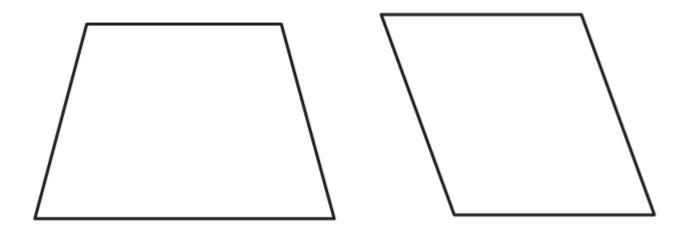


Make two more examples of each of these.

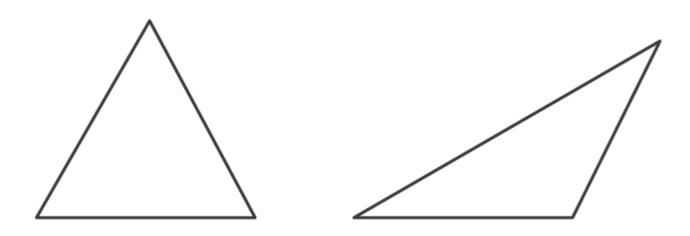


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(a) It is a closed figure and is made of four line segments. Hence, the given figure is a quadrilateral. Two more examples are

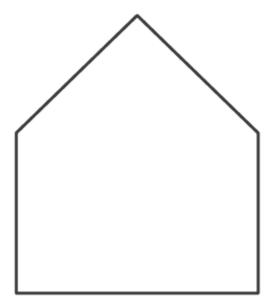


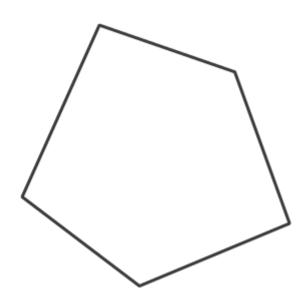
(b) The given figure is a triangle as it is a closed figure with 3 line segments. Two more examples are



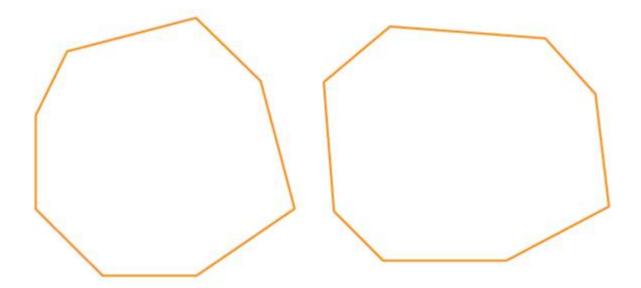
(c) The given figure is a pentagon as this closed figure made of 5 line segments. Two more examples are







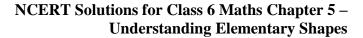
(d) The given figure is an octagon as it is a closed figure made of 8 line segments. Two more examples are



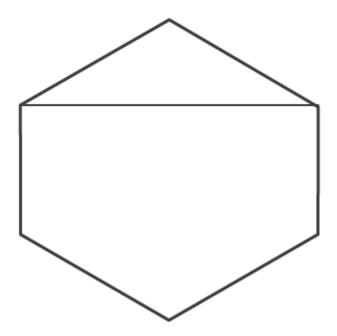
3. Draw a rough sketch of a regular hexagon. Connecting any three of its vertices, draw a triangle. Identify the type of the triangle you have drawn.

Solutions:

We can draw an isosceles triangle by joining three of vertices of a hexagon as shown in below figure



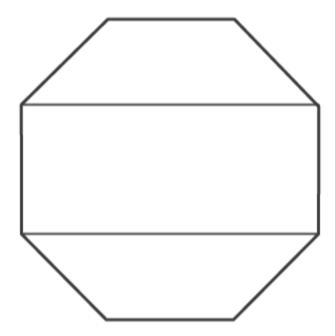




4. Draw a rough sketch of a regular octagon. (Use squared paper if you wish). Draw a rectangle by joining exactly four of the vertices of the octagon.

Solution:

The below figure is a regular octagon in which a rectangle is drawn by joining four of the vertices of the octagon.





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5. A diagonal is a line segment that joins any two vertices of the polygon and is not a side of the polygon. Draw a rough sketch of a pentagon and draw its diagonals.

Solutions:

From the figure we may find AC, AD, BD, BE and CE are the diagonals

