

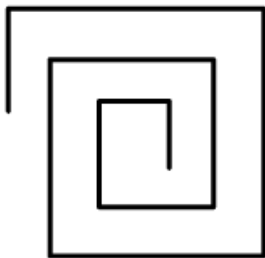
Board –CBSE

Class – 6th

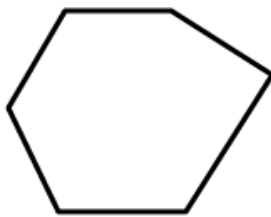
Topic – Understanding Elementary Shapes Ex:5.8

Exercise – 5.8

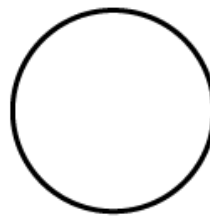
Q1. Examine whether the following are polygons. If anyone among them is not, say why?



(i)



(ii)



(iii)

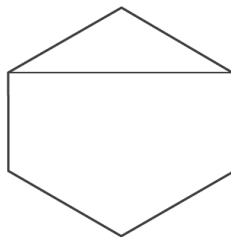


(vi)

- Sol.** (a) The given figure is not closed. Therefore, it is not a polygon.
(b) The given figure is a polygon.
(c) The given figure is not a polygon because every polygon is enclosed with line segments.
(d) The given figure is not a polygon because it is enclosed by an arc and two line segments.

Q2. Draw a rough sketch of a regular hexagon. Connecting any three of its vertices, draw a triangle. Identify the type of triangle you have drawn.

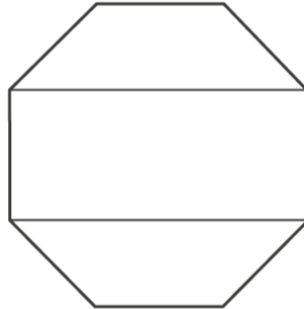
Sol. ABCDEF is a rough sketch of a regular hexagon. If we join any three vertices like D, A and B, we get a scalene triangle DAB.



But if we join the alternate vertices, we get an equilateral triangle EAC.

Q3. Draw a rough sketch of a regular octagon. (Using squared paper if you wish). Draw a rectangle by joining exactly four of the vertices of the octagon.

Sol. ABCDEFGH is a rough sketch of a regular octagon. GHCD is the rectangle formed by joining the four vertices of the given octagon.



Q4. 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.

Sol. A B C D E is the rough sketch of a pentagon.

By joining any two vertices, we get, the following diagonals.

