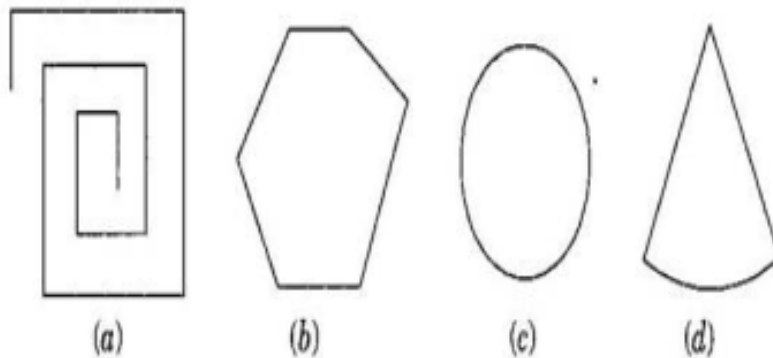




NCERT SOLUTIONS FOR CLASS 6 MATHS
UNDERSTANDING ELEMENTARY SHAPES EX 5.8

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



Ans:

(a) As it is not a closed figure, therefore, it is not a polygon.

(b) It is a polygon because it is closed by line segments.

(c) It is not a polygon because it is not made by line segments.

(d) It is not a polygon because it not made only by line segments, it has curved surface also.

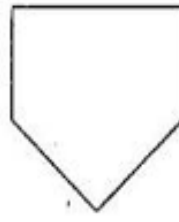
Q2. Name each polygon:



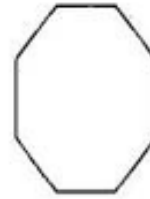
(a)



(b)



(c)



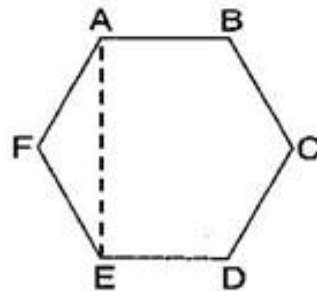
(d)

Ans:

(a) Quadrilateral, (b) Triangle, (c) Pentagon, (d) Octagon

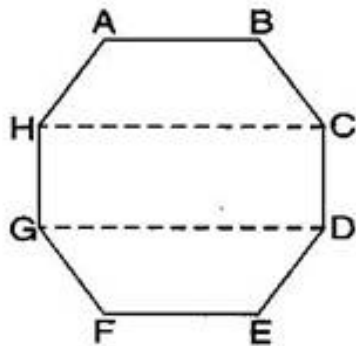
Q3. Draw a rough sketch of a regular hexagon. Connecting any three of its vertices, draw a triangle. Identify the type of the triangle you have drawn.

Ans: ABCDEF is a regular hexagon and triangle thus formed by joining AEF is an isosceles triangle.



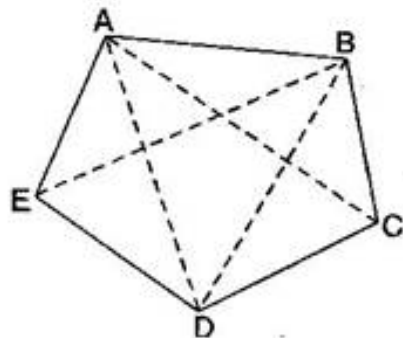
Q4. Draw a rough sketch of a regular octagon. (Use squared paper if you wish). Draw a rectangle by joining exactly four of the vertices of the octagon.

Ans: ABCDEFGH is a regular octagon and CDGH is a rectangle.



Q5. 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.

Ans: ABCDE is the required pentagon and its diagonals are AD, AC, BE and BD.



***** END *****