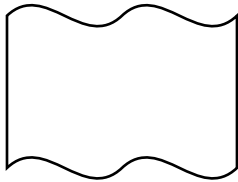
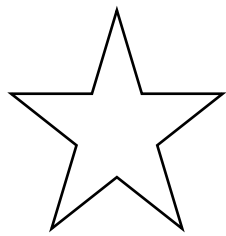


**UNDERSTANDING QUADRILATERALS****INTRODUCTION OF POLYGON****EXERCISE**

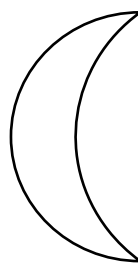
**Q.1** Which of the following are polygons? Give reasons.



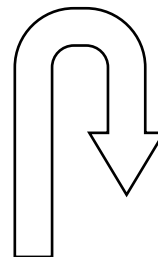
(a)



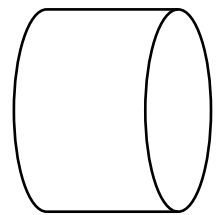
(b)



(c)



(d)



(e)

**Q.2** How many diagonals do the following polygons have?

- (a) Regular Hexagon
- (b) Quadrilateral
- (c) Octagon
- (d) Triangle
- (e) Convex quadrilateral
- (f) Pentagon

**Q.3** Draw a regular hexagon. Join any three of its vertices and draw a triangle. Name the triangle obtained.

**Q.4** What is a regular polygon? Write the names of regular polygons having

- (a) 3 sides
- (b) 4 sides
- (c) 5 sides

**ANSWER KEY**

1. (b) closed figure bounded by straight lines
2. (a) 9  
(b) 2  
(c) 20  
(d) 0  
(e) 2  
(f) 5
3.  $\triangle ABC$  is isosceles,  $\triangle ACF$  is right angled
4. A polygon is said to be regular if its sides and angles are equal.
  - (a) equilateral triangle
  - (b) square
  - (c) Regular pentagon