GRADE -8   QUESTION BANK   SUB: MATHEMATICS

CH- 4-   Understanding Quadrilaterals

1) What is the name of regular polygon with 4 sides?
a. Equilateral triangle   b. square   c. rectangle   d. kite

2. How many sides a regular polygon will have if its exterior angles are of 30°?
   a. 12   b. 10   c. 3   d. 5

3. What is the name of regular polygon of 8 sides?

a. Square   b. pentagon   c. hexagon   d. octagon

4. How many diagonals does a quadrilateral have?
   a. 1   b. 2   c. 3   d. 4

 5) In a parallelogram opposite angles are?
a. Equal   b. half   c. doubled.   d. none of these

6) In a rectangle all angles are?

a. 45 °   b. 90 °   c. 100 °   d. 180 °

7). In a rectangle both the diagonals are?

a. Equal   b. unequal   c. sometimes equal, sometimes unequal   d. none of these
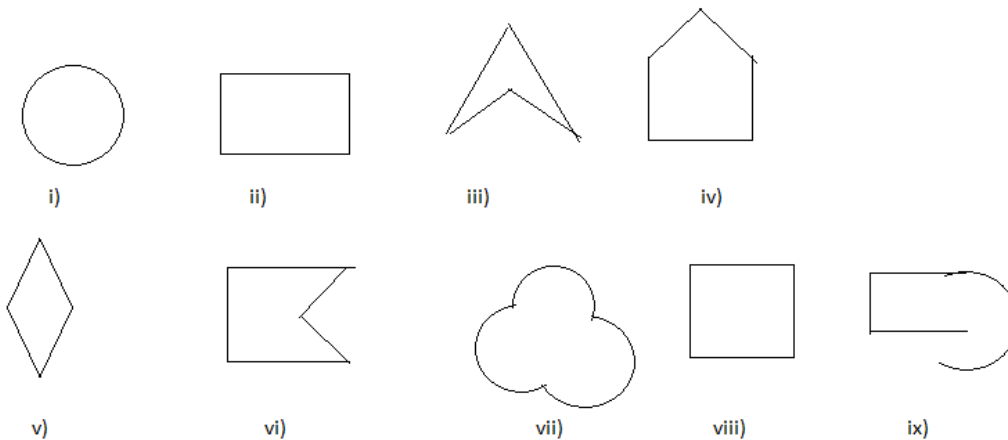
FILL IN THE BLANKS :

 i). A curve which does not cut itself is called a/an…………..

 ii) A closed curve is called ……….,if it does not pass through one point more than once.

iii) A pentagon has……………… interior angles .

iv) A parallelogram in which all sides are equal is called ….. ….

Write   TRUE/FALSE :

i) The sum of all angles of a quadrilateral is 180^0 .

ii) A parallelogram in which all sides are equal is called square.

 iii)Every rectangle is a parallelogram.
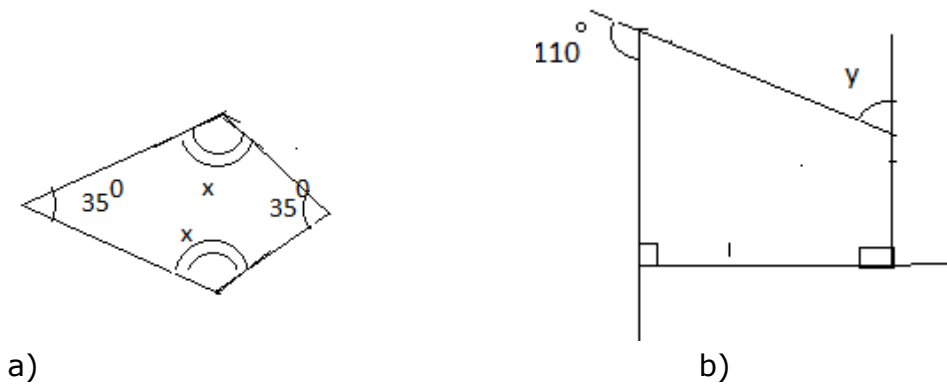
iv)Every parallelogram is a rectangle.

ANSWER THE FOLLOWING QUESTIONS

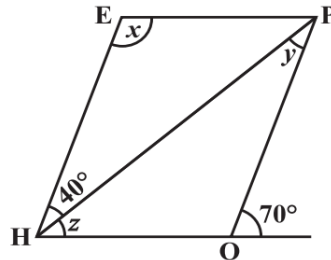1) Observe the following pattern and classify each of them on the basis of

i)   ii)   iii)   iv)

v)   vi)   vii)   viii)   ix)

a) open curve   b) simple closed curve   c) polygon
d) convex polygon   e) concave polygon

2) Find the values of the unknown variable.
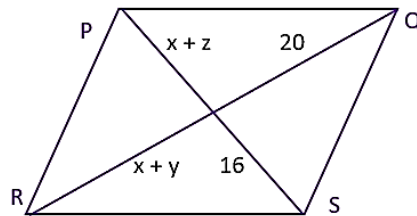

a)   b)

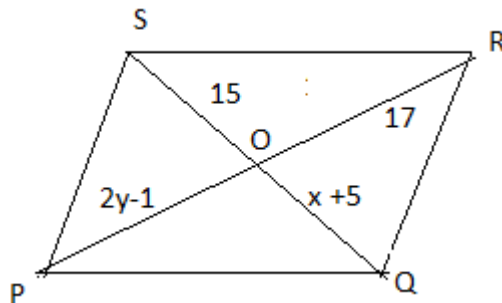3) How many sides does a regular polygon have if the measure of its exterior angle is 36°?

4) ABCD is a parallelogram. Find the angle if x, y and z.

5) In a parallelogram PQRS find the value of x and y.

6) In parallelogram PQRS , find the value of x and y

7) In a parallelogram PQRS, $\angle P:\angle Q = 1:2$ Then find $\angle Q=$?

8) ABCD is a trapezium with AB//CD .If < A = 106^0 and < B = 122^0. Find the measures of <C and < D.

9)The angles of a quadrilateral are in the following ratio. Find the measure of the four angles.
   a) 3:5:7:9   b) 2:2:3:5

10) Find the number of a regularpolygons if each interior angle is:

   156 ^{0}

11) One angle of a parallelogram is 30^0 more than its adjacent angles. How much each angle measure?

12) Draw a rhombus with one of its angles equal to 80^0 and its sides equal to 6.5 cm.