MATHS

BOOKS - SWAN PUBLICATION

BASIC GEOMETRICAL CONCEPTS

Exercise 8 1

1. Give the examples of :

A point

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2. Give the examples of :

A line segment

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3. Give the examples of :

Parallel lines

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4. Give the examples of :

Intersecting lines

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5. Give the examples of :

Concurrent lines

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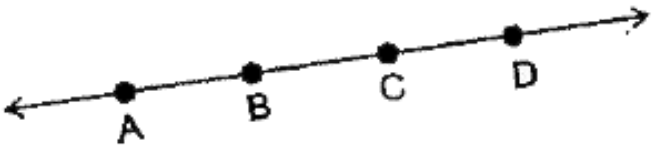
6. Name the line segments in given line.



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7. How many lines can pass through a given point?

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8. How many points lie on a line ?

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9. How many lines can pass through

two given points?

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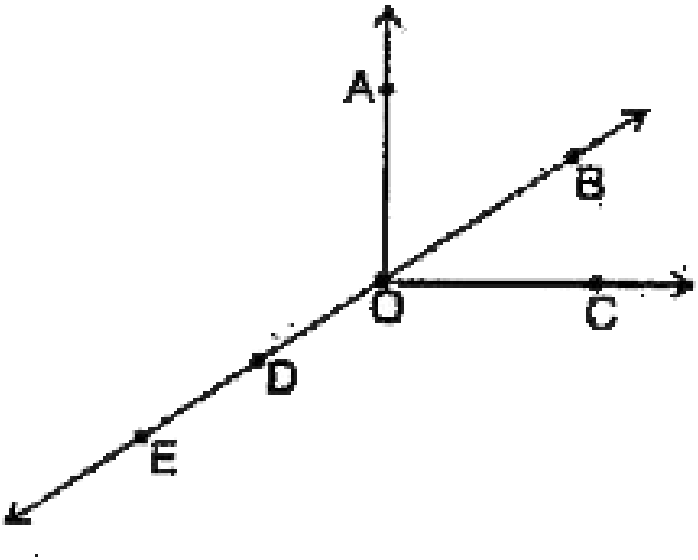
10. Use the figure to name.



Five points

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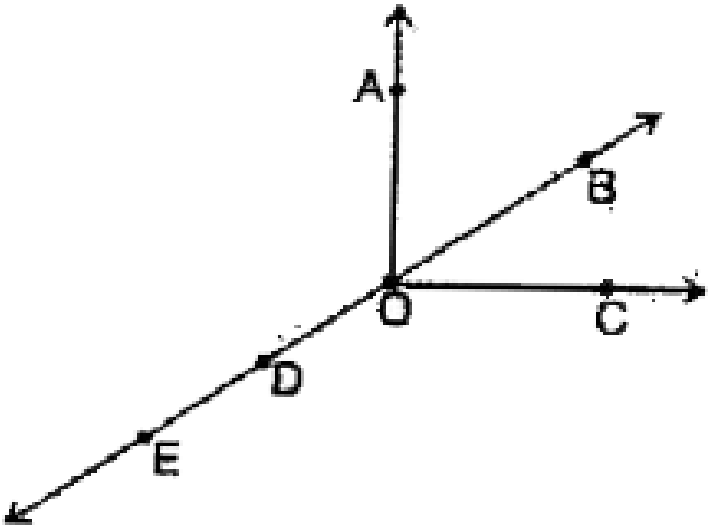
11. Use the figure to name.



A line

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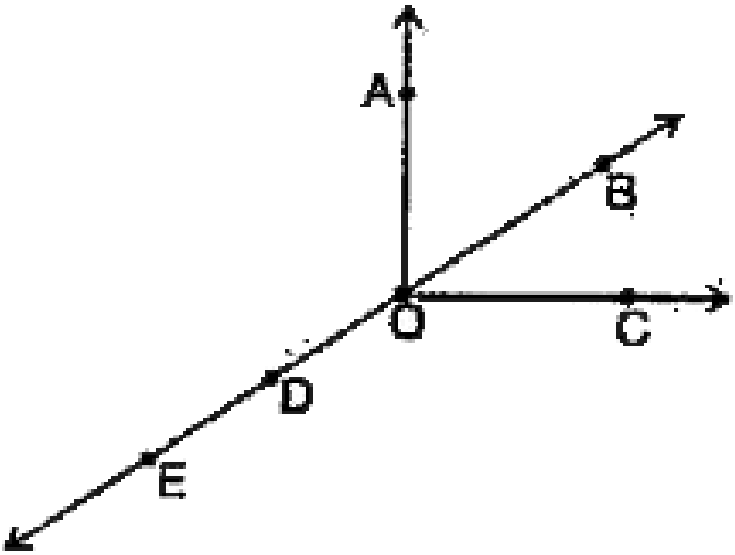
12. Use the figure to name.



Four rays

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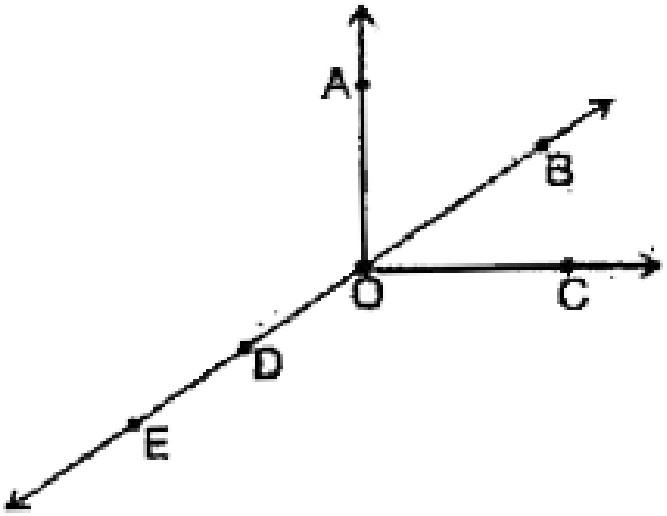
13. Use the figure to name.



Five line segments

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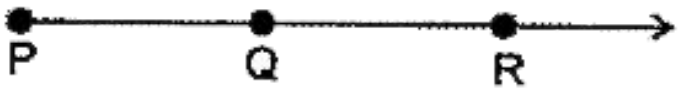
14. Name the given ray in all possible ways.



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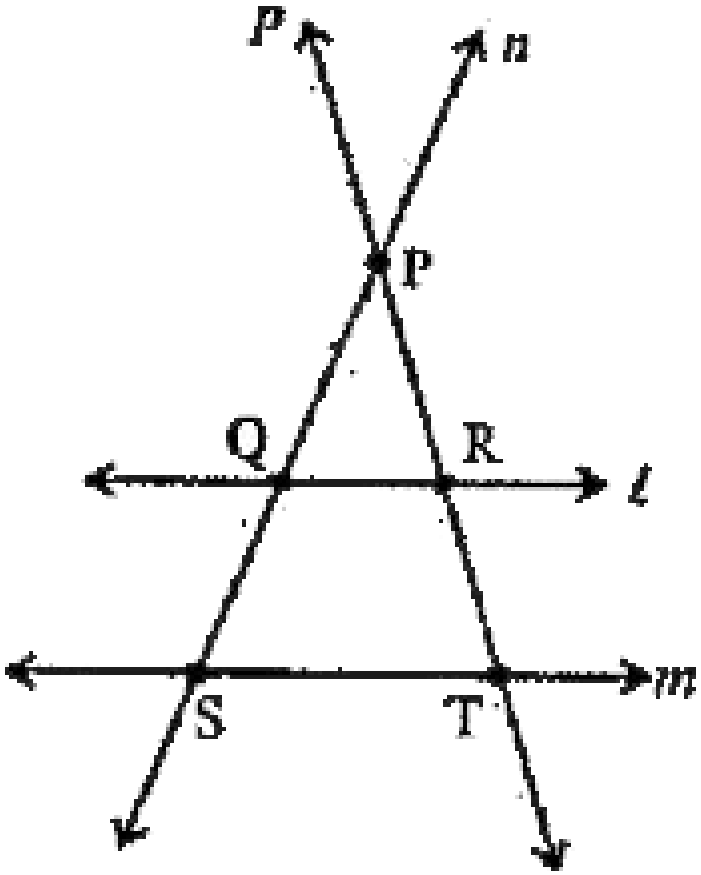
15. Use the figure to name :



Pair of parallel lines.

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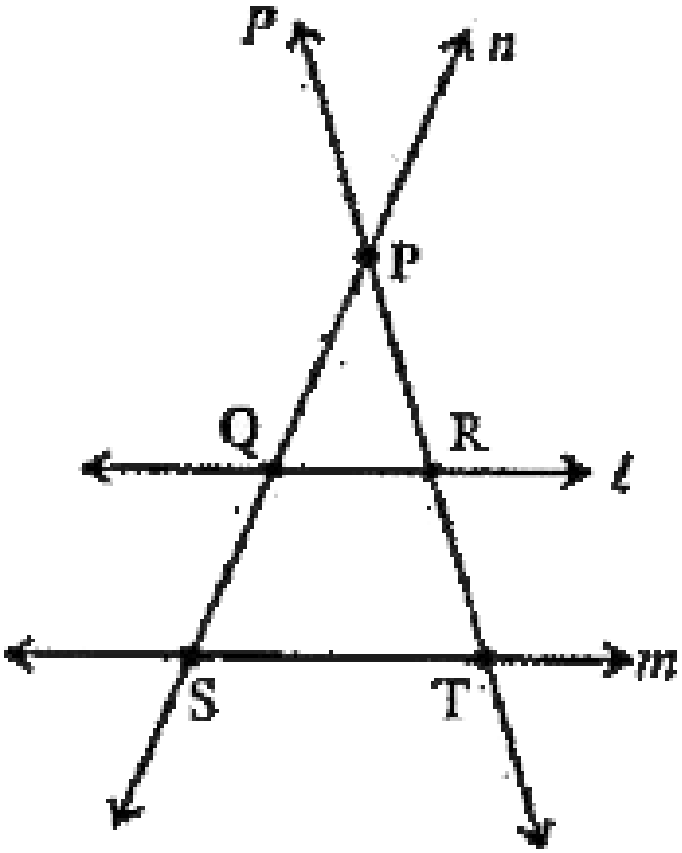
16. Use the figure to name :



All pairs of intersecting lines.

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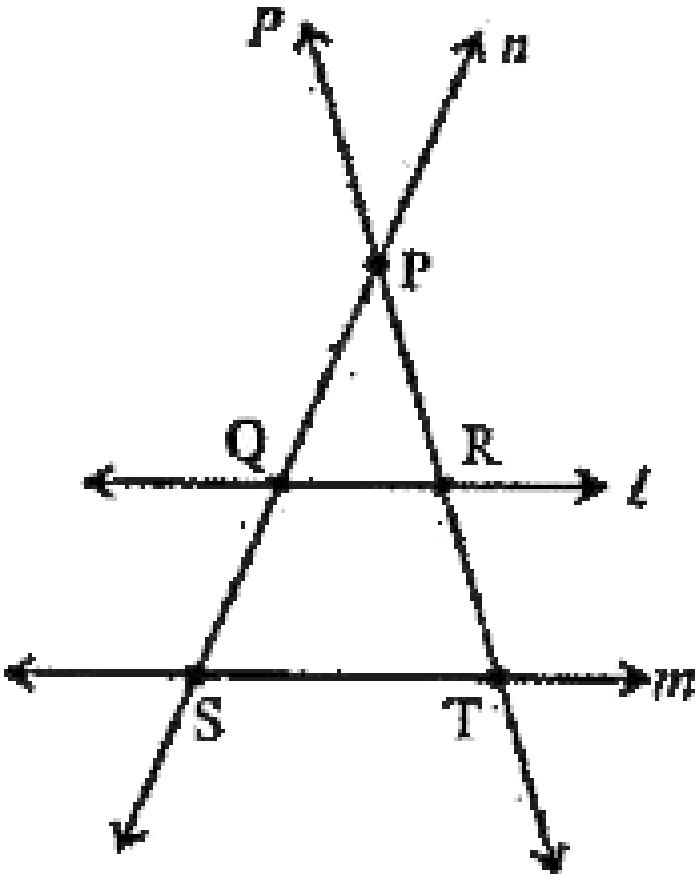
17. Use the figure to name :



Lines whose point of intersection is S.

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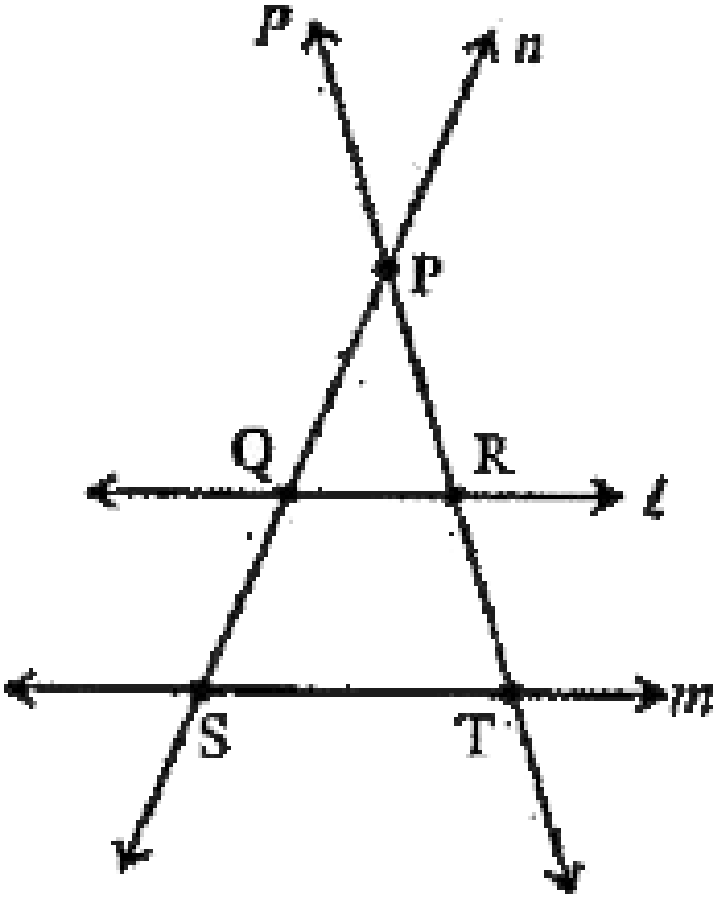
18. Use the figure to name :



Collinear points.

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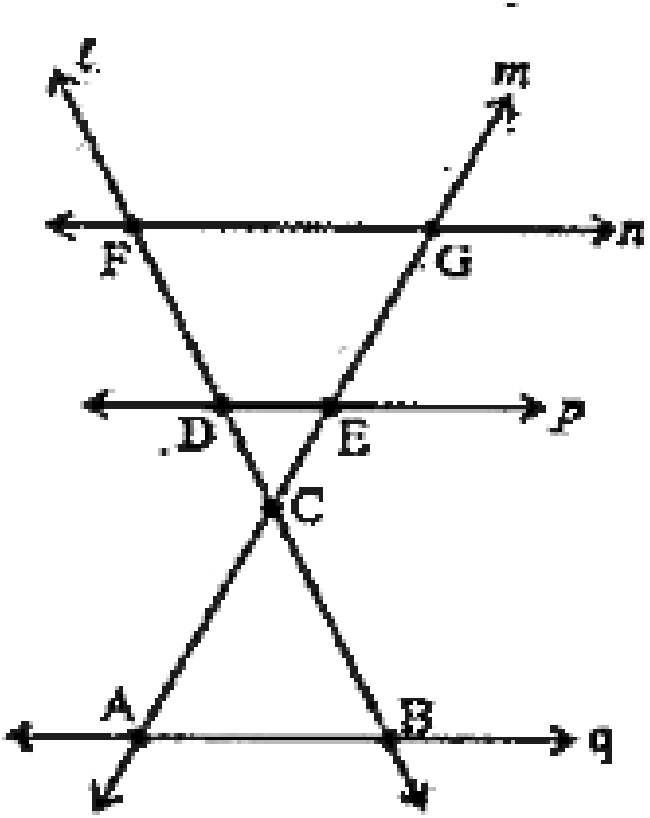
19. Use the figure to name :



All pairs of parallel lines.

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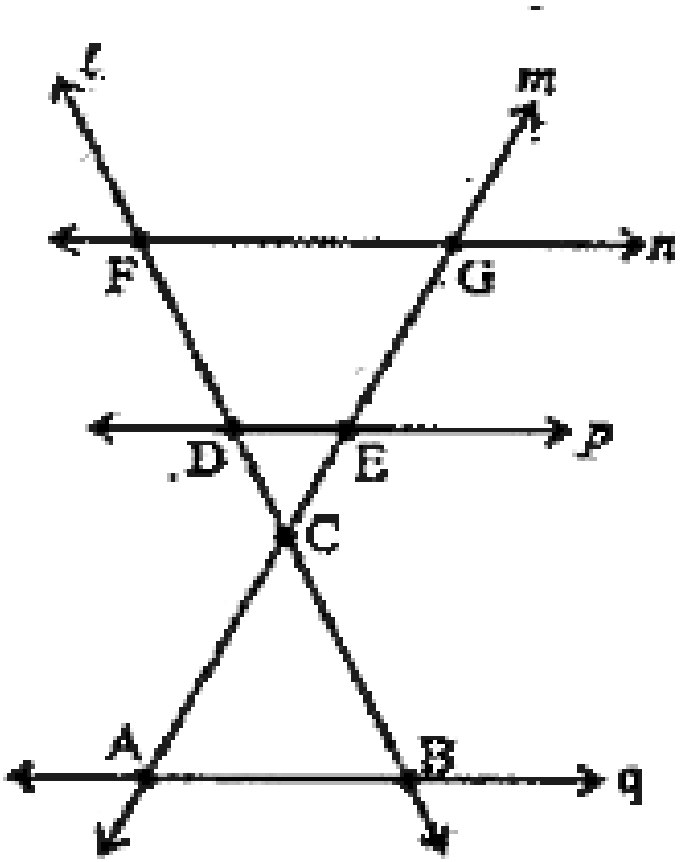
20. Use the figure to name :



All pairs of intersecting lines.

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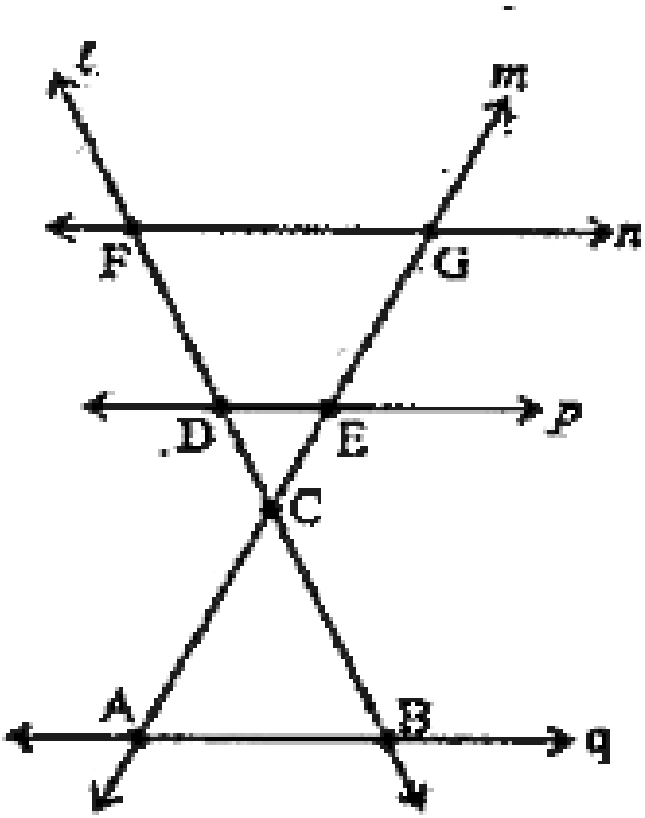
21. Use the figure to name :



Lines whose point of intersection is D.

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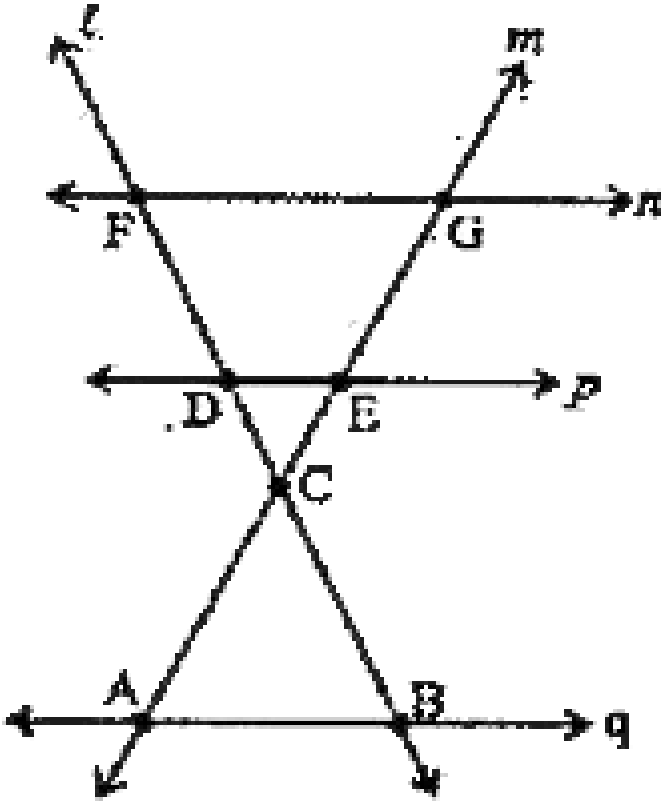
22. Use the figure to name :



Point of intersection of lines m and p.

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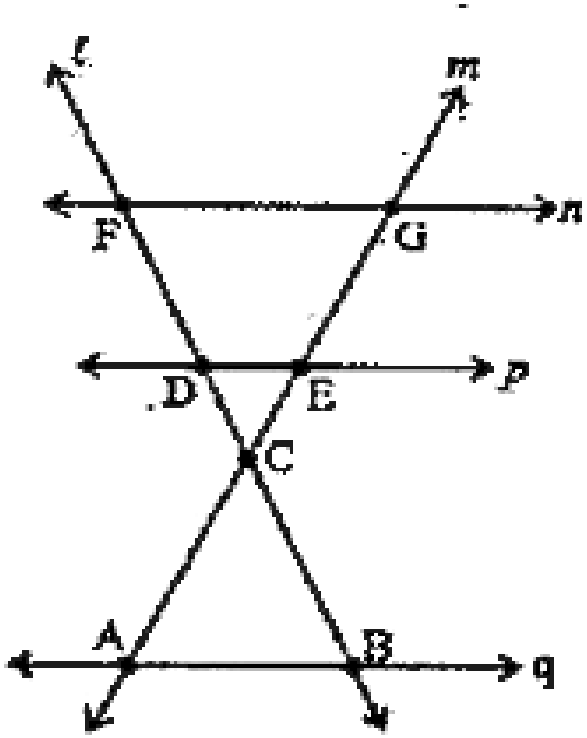
23. Use the figure to name :



All sets of collinear points.

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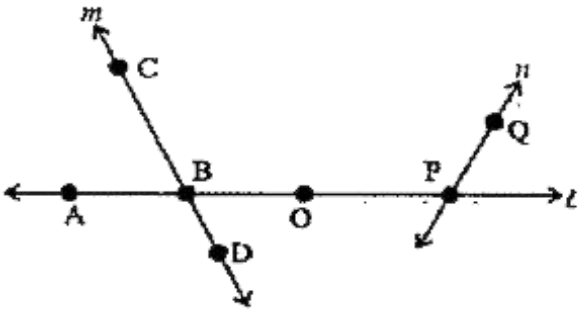
24. Use the figure to name :



Line containing point P.

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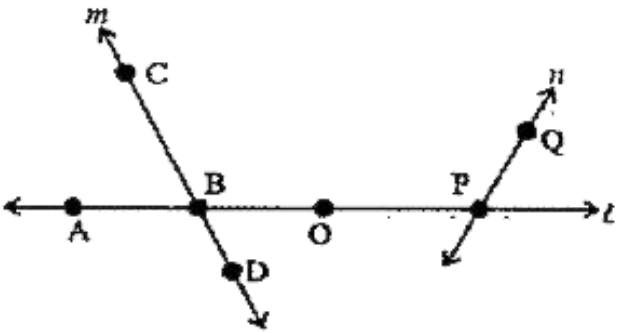
25. Use the figure to name :



Lines whose point of intersection is B.

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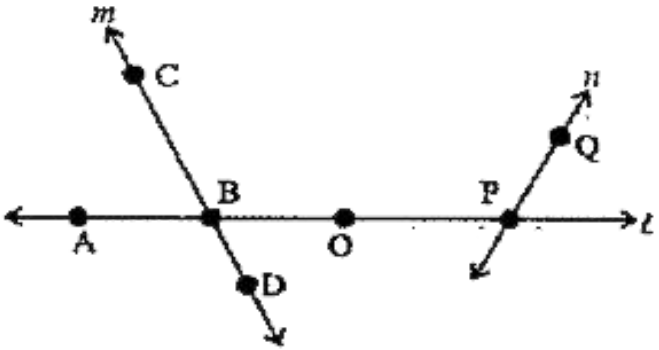
26. Use the figure to name :



Point of intersection of lines m and l.

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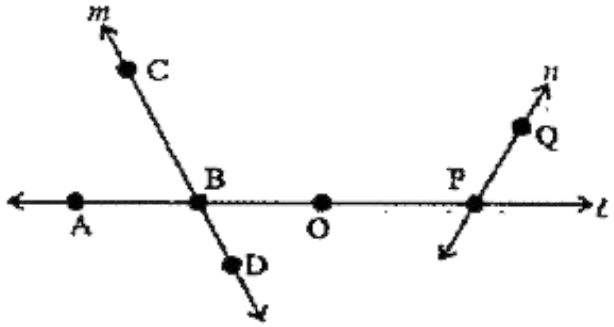
27. Use the figure to name :



All pairs of intersecting lines.

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28. State whether the following statements are true or false

Two lines in a plane always intersect at point.

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29. State which of the following statements are True (T) or False (F) :

If four lines intersect at a point, these are called concurrent lines.

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30. State which of the following statements are True (T) or False (F) :

Points has a size because we can see it as a thick dot on the paper.

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31. State which of the following statements are True (T) or False (F) :

Through a given point, only one line can be drawn.

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32. Which of the following statements are True or False :

A square is a rectangle.

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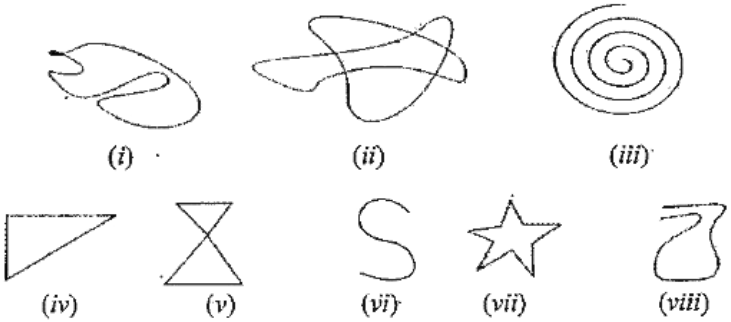
Exercise 8 2

1. Which of the following are simle curves ?



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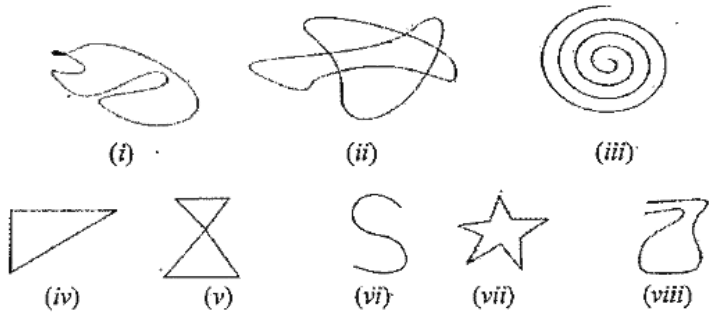
2. Classify the following as open or closed curve.



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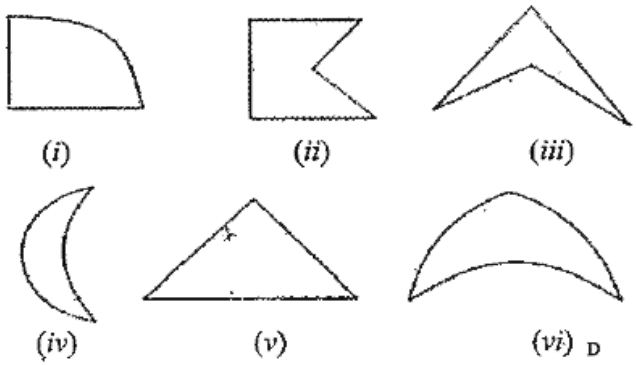
3. Identify thhe polygons :



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4. Draw any polygon and shade its interior.

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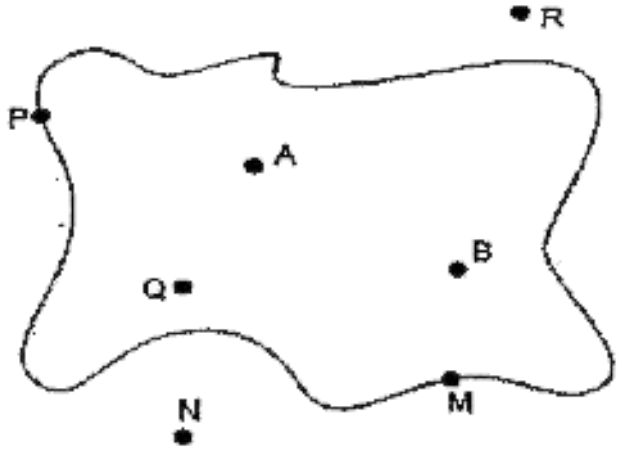
5. Name the points which are :

In the interior of the closed figure.



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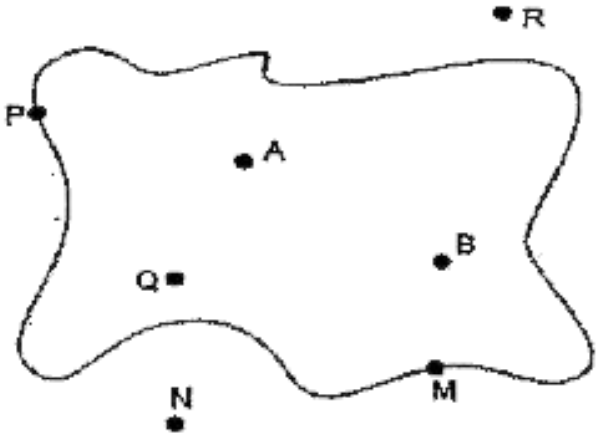
6. Name the points which are :

In the exterior of the closed figure.



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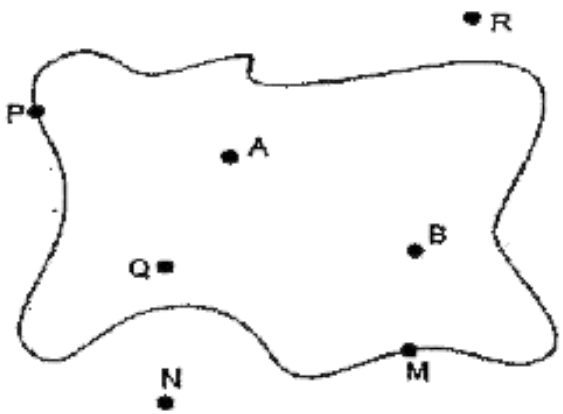
7. Name the points which are :

On the boundary of the closed figure.



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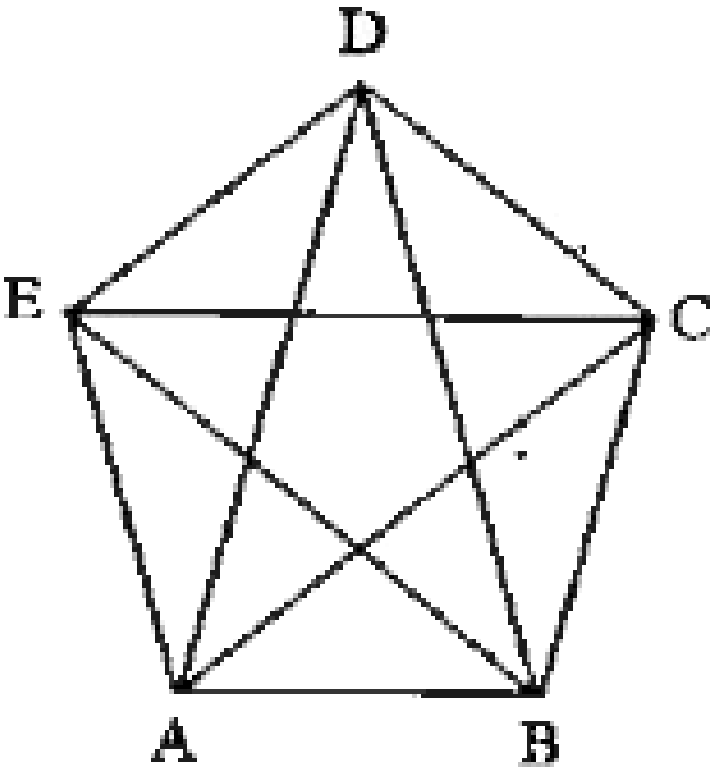
8. In the given figure, name :



The vertices

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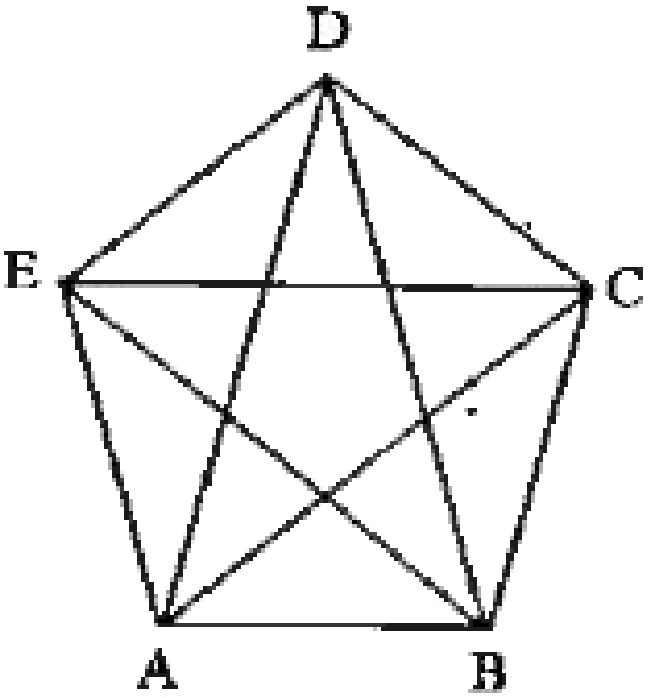
9. In the given figure, name :



The sides

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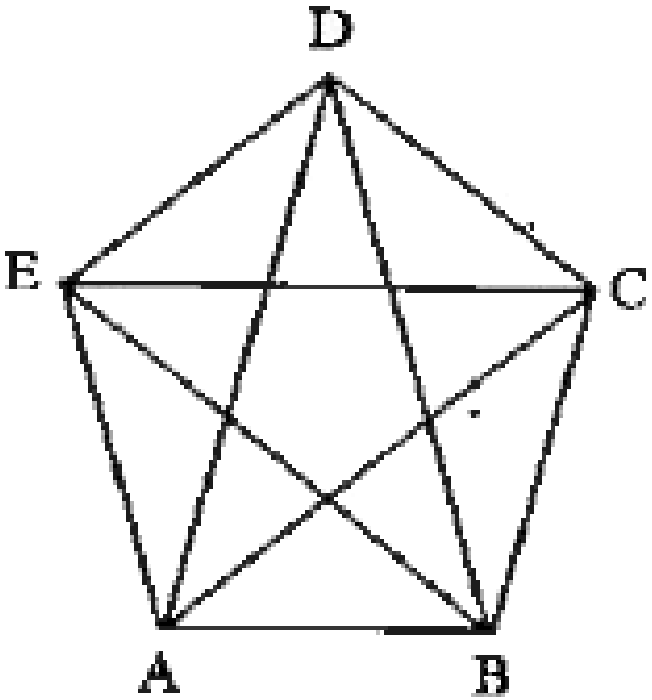
10. In the given figure, name :



The diagonals

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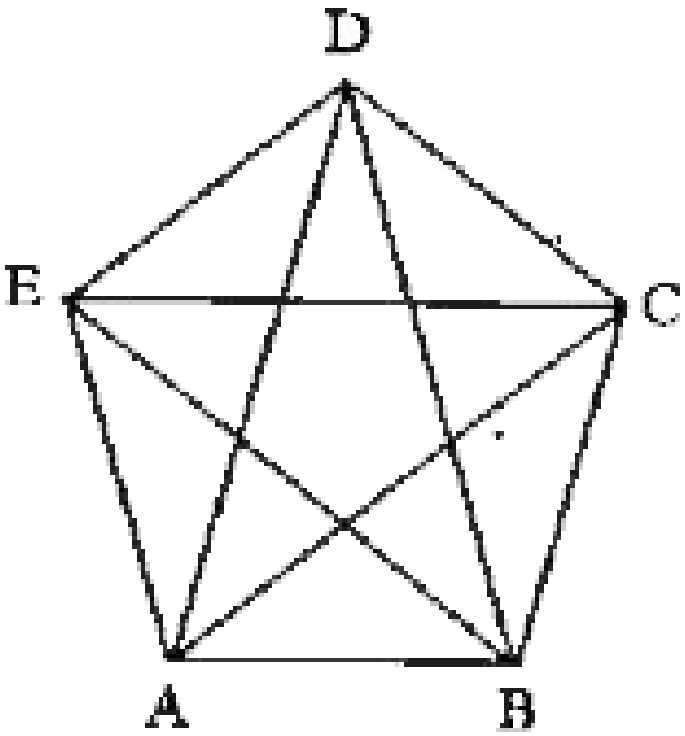
11. In the given figure, name :



Adjacent sides of AB

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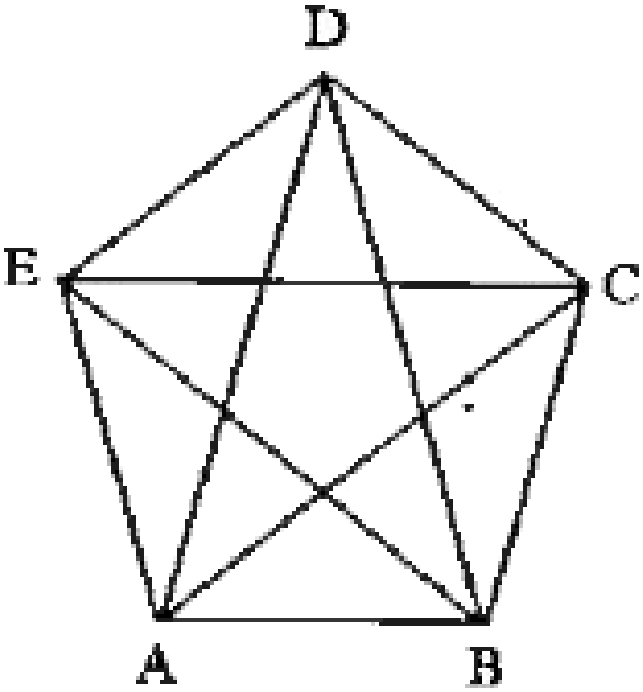
12. In the given figure, name :



Adjacent vertices of E

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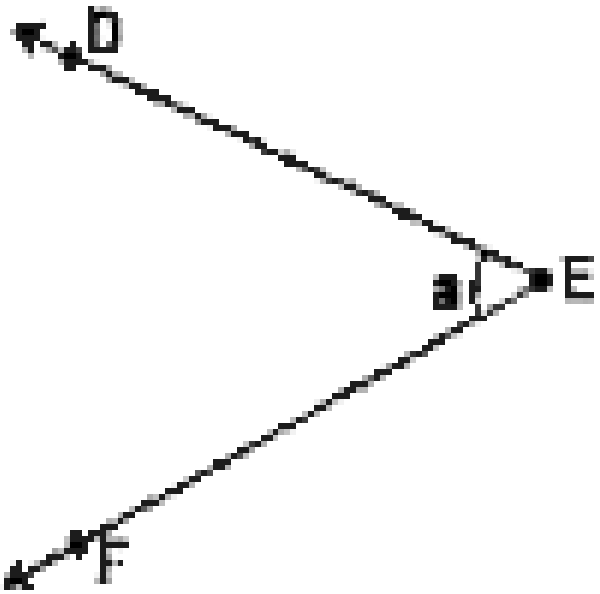
Exercise 8 3

1. Name the given angles in all ways :



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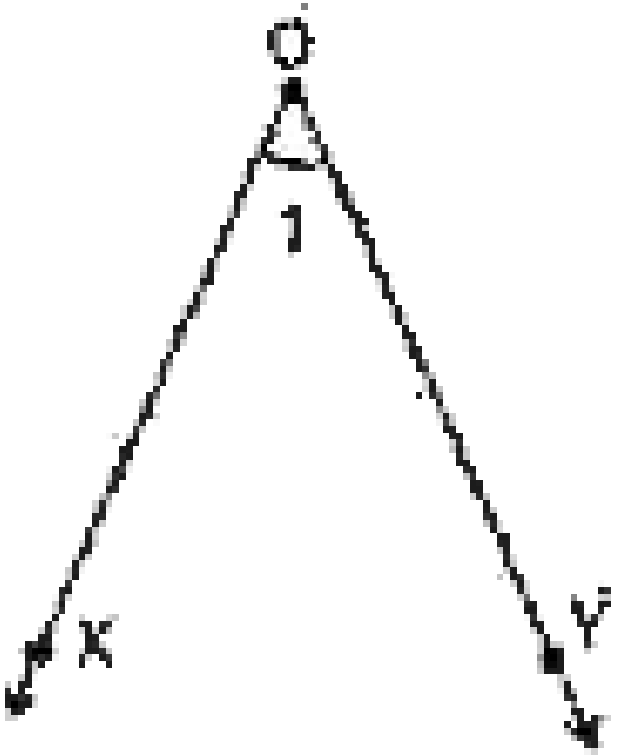
2. Name the given angles in all ways :



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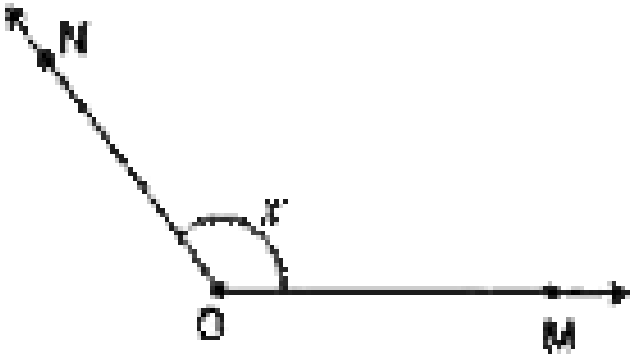
3. Name the given angles in all ways :



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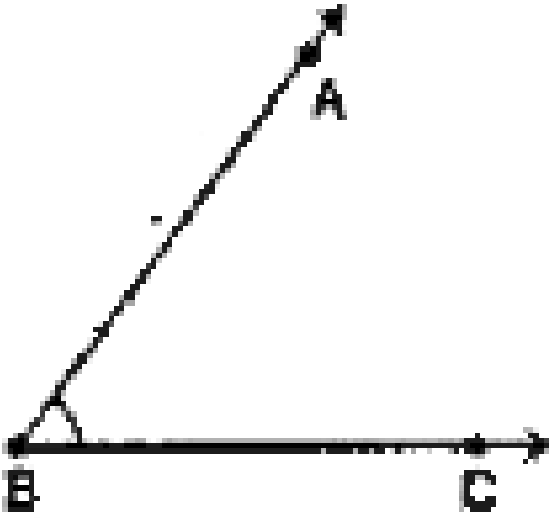
4. Name the vertex and the arms of given angles :



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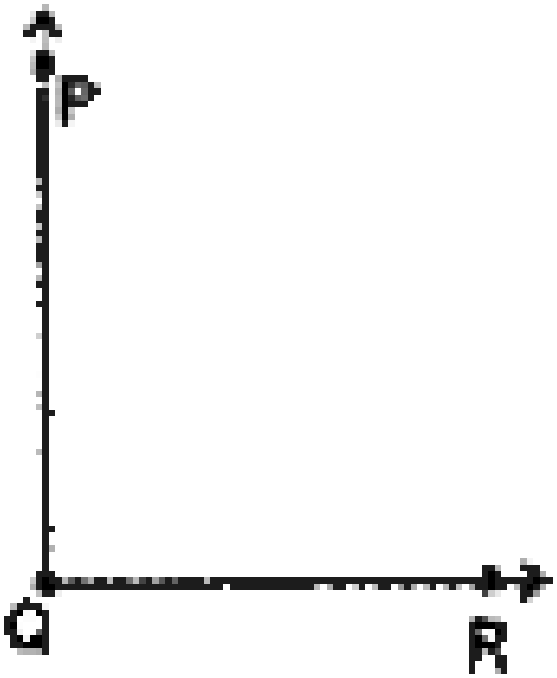
5. Name the vertex and the arms of given angles :



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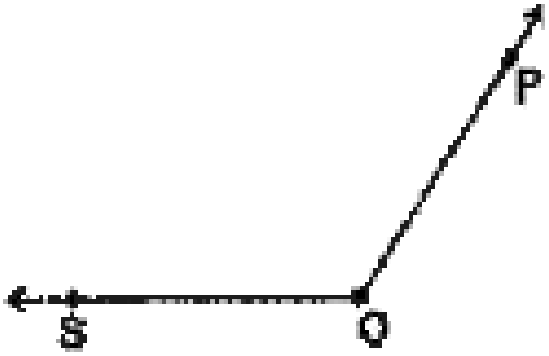
6. Name the vertex and the arms of given angles :



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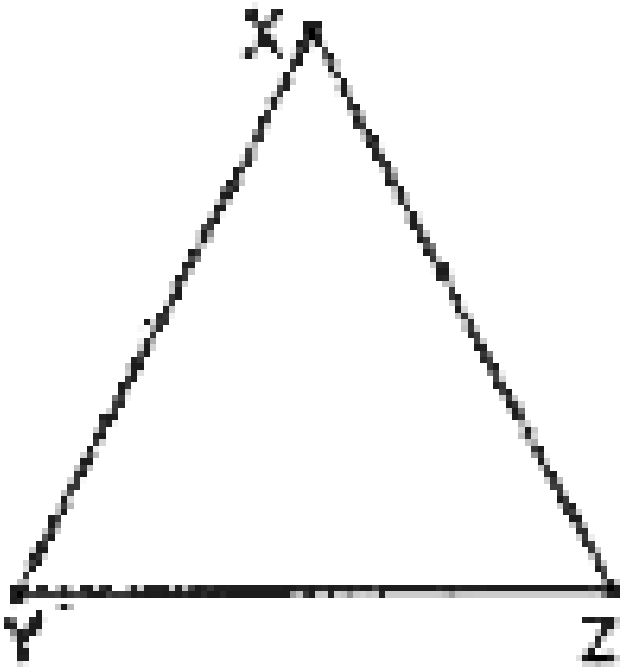
7. Name all the angles of the given figures :



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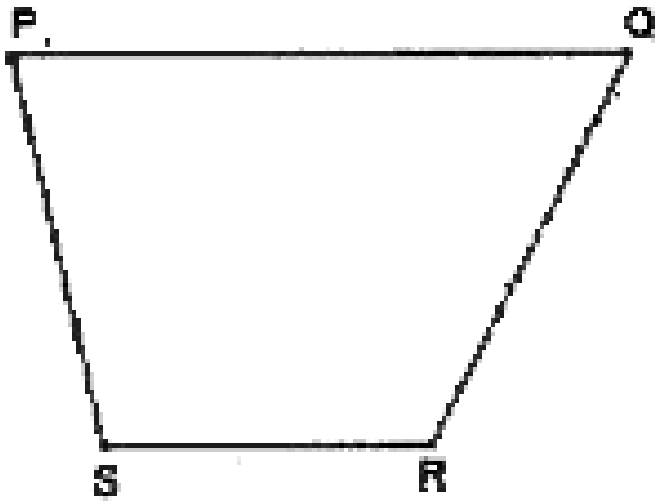
8. Name all the angles of the given figures :



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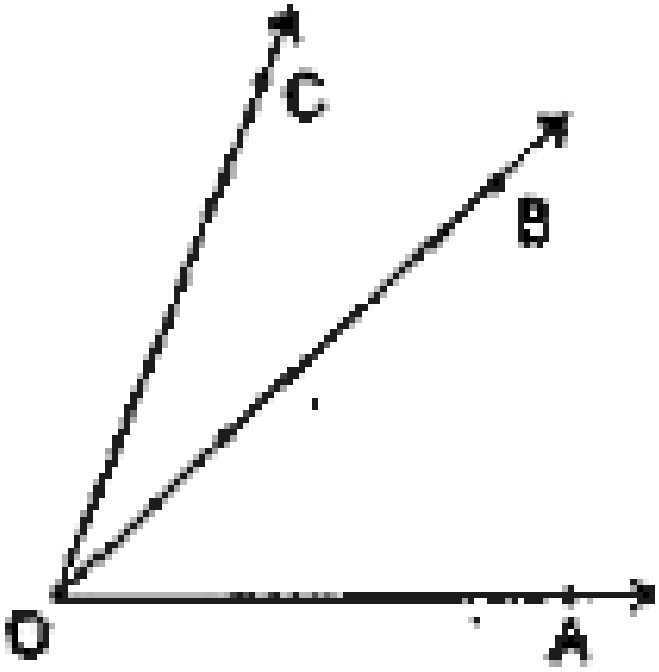
9. Name all the angles of the given figures :



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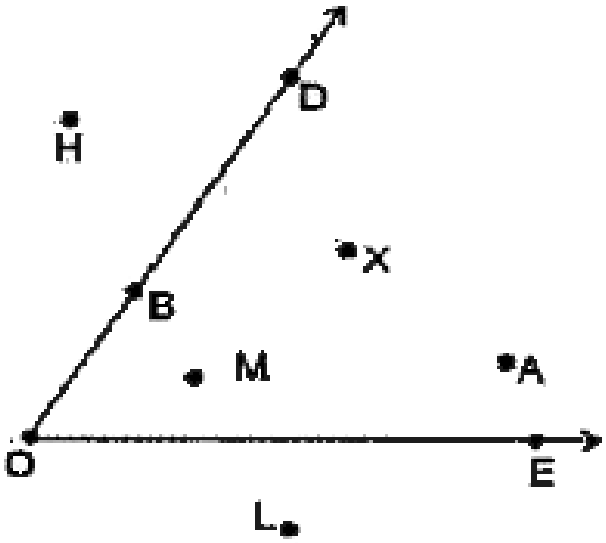
10. In the given figure, name the points that lie



In the interior of $\angle DOE$

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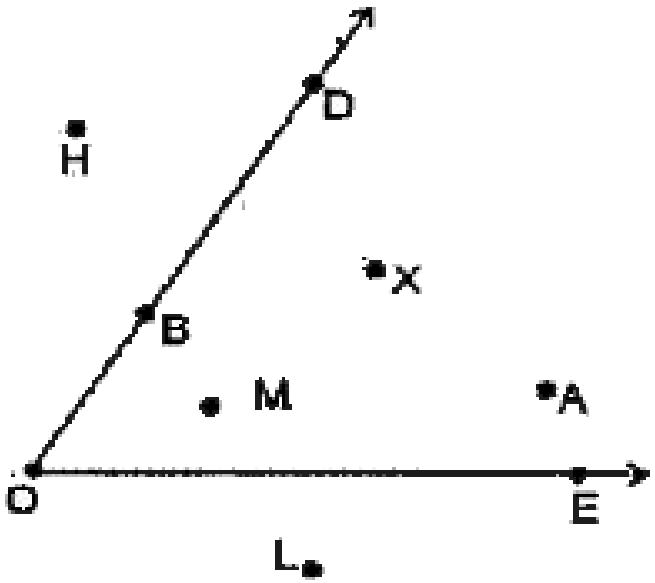
11. In the given figure, name the points that lie



In the exterior of $\angle DOE$

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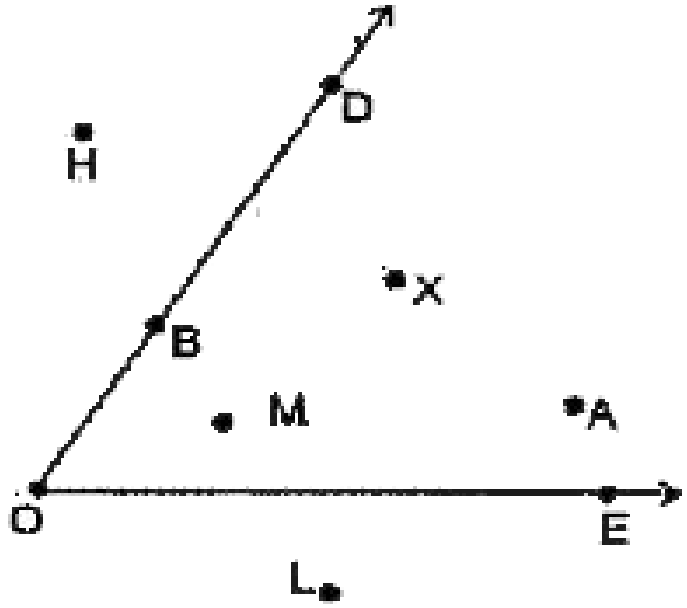
12. In the given figure, name the points that lie



On the $\angle DOE$

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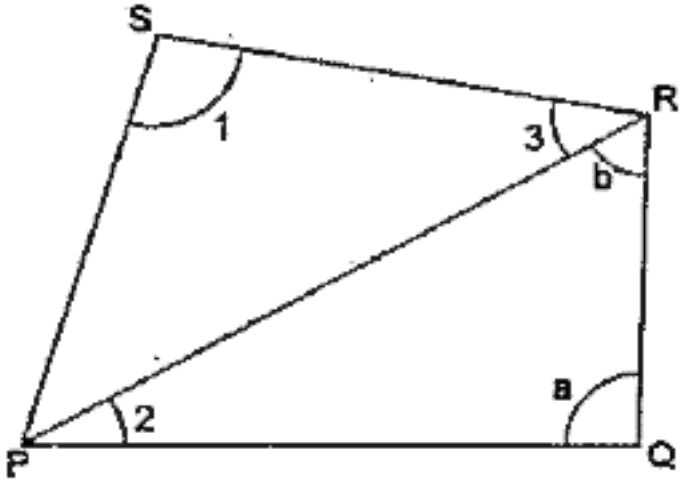
13. In the given fitgure, write another name for the following angles :

$\angle 1$



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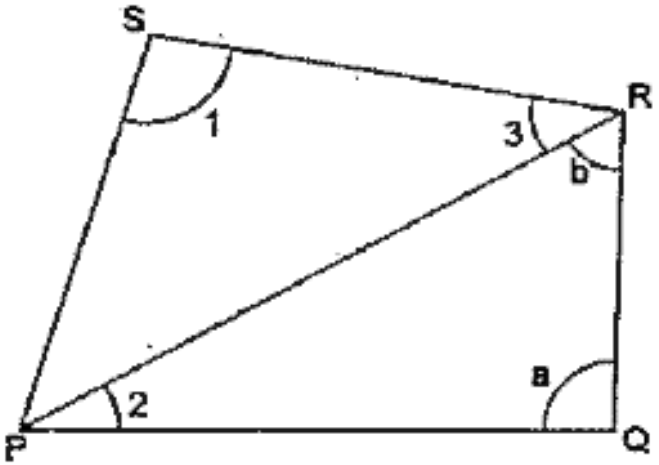
14. In the given fitgure, write another name for the following angles :

$\angle 2$



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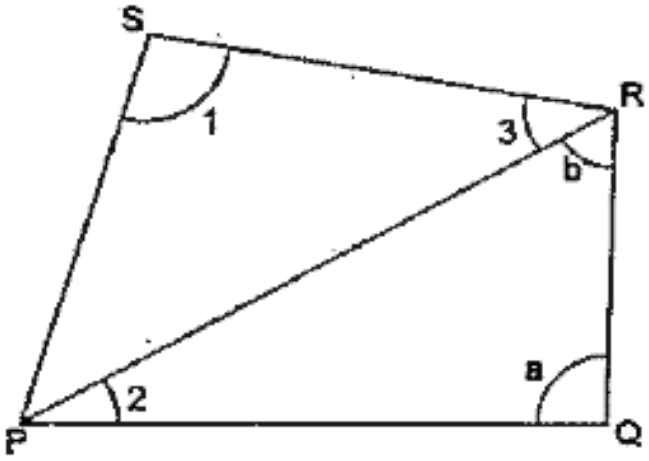
15. In the given fitgure, write another name for the following angles :

$\angle 3$



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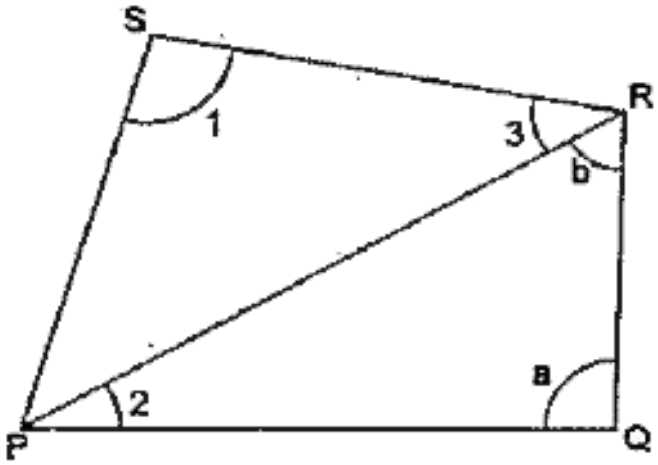
16. In the given fitgure, write another name for the following angles :

$\angle a$



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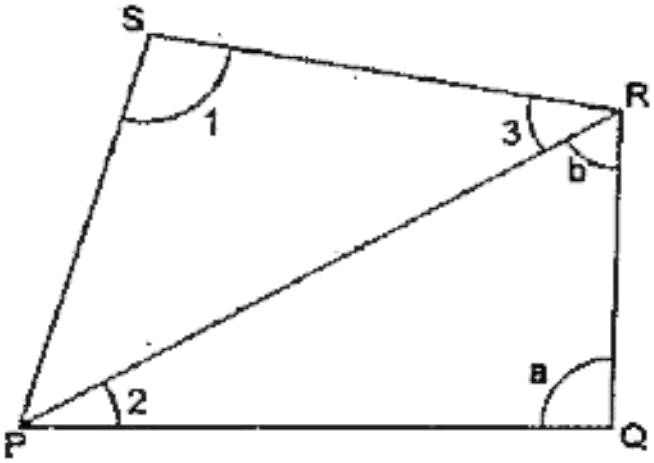
17. In the given figure, write another name for the following angles :

$\angle b$



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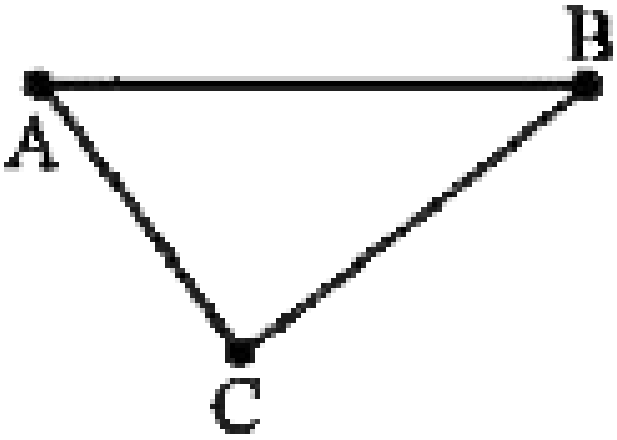
Exercise 8 4

1. Write all the names of the following triangles in all order : -



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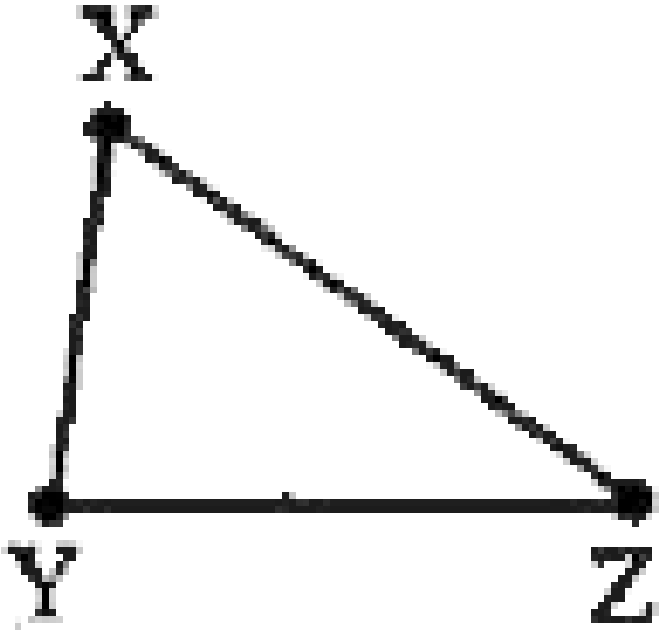
2. Write all the names of the following triangles in all order : -



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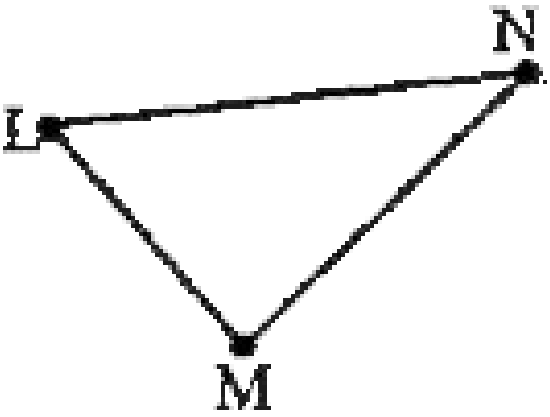
3. Write all the names of the following triangles in all order : -



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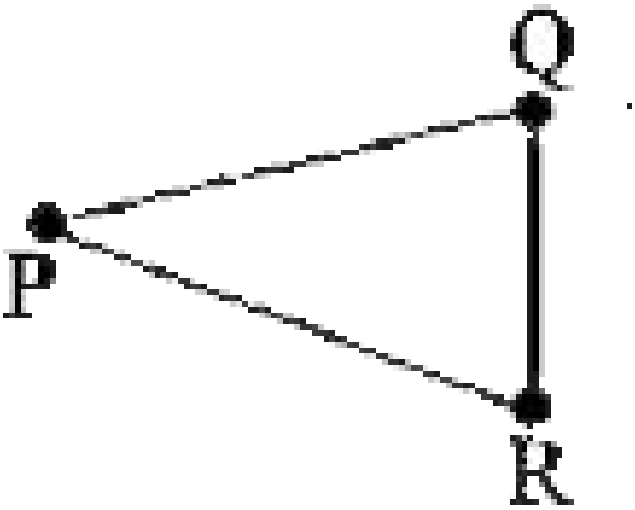
4. Write the name of vertices, sides and angles of the following triangles :



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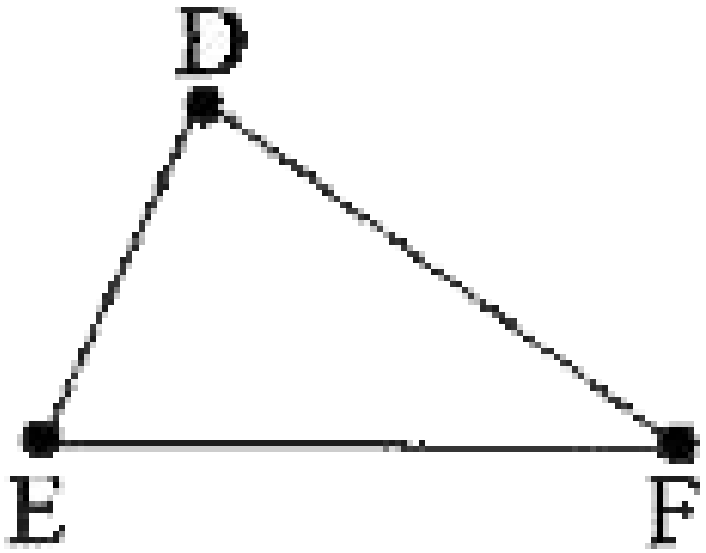
5. Write the name of vertices, sides and angles of the following triangles :



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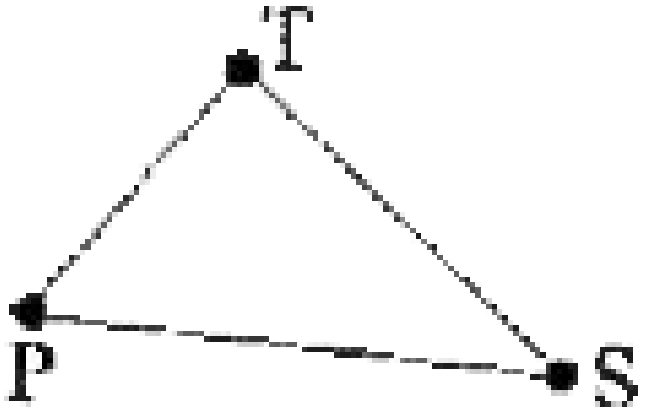
6. Write the name of vertices, sides and angles of the following triangles :



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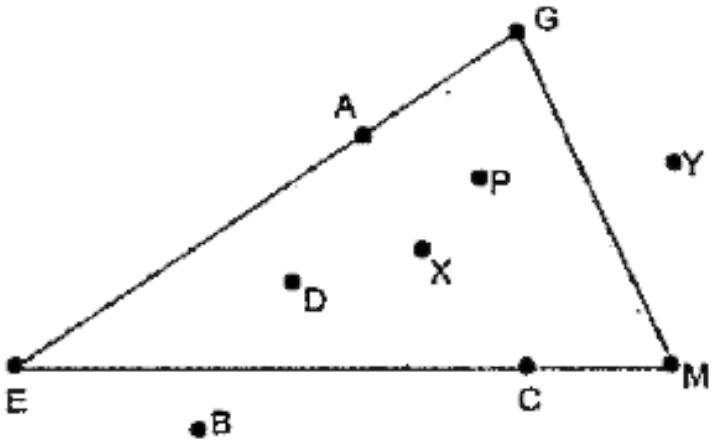
7. In the given figure, name the points that lie :



On the boundary of ΔGEM

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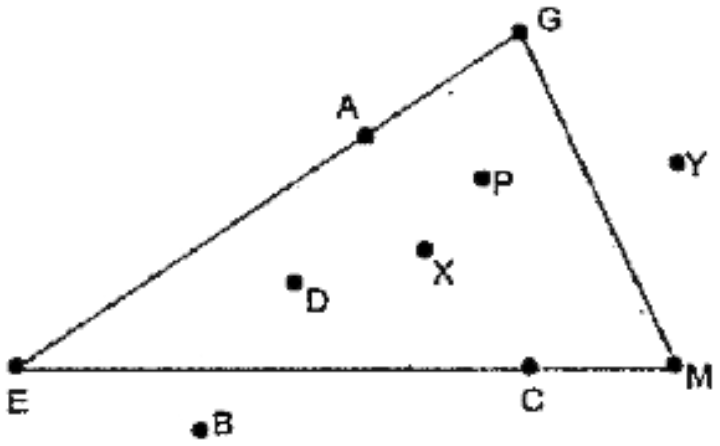
8. In the given figure, name the points that lie :



In the interior of ΔGEM

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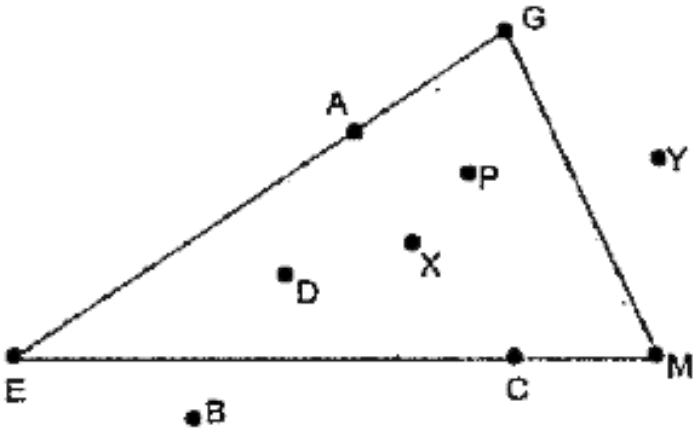
9. In the given figure, name the points that lie :



In the exterior of ΔGEM

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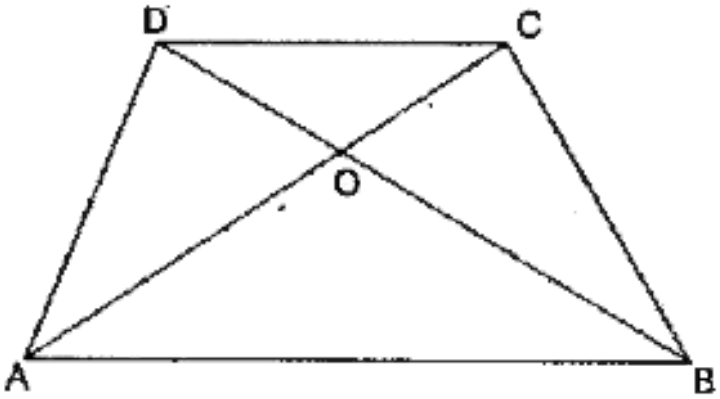
10. In the given figure, write the name of : -

All different triangles



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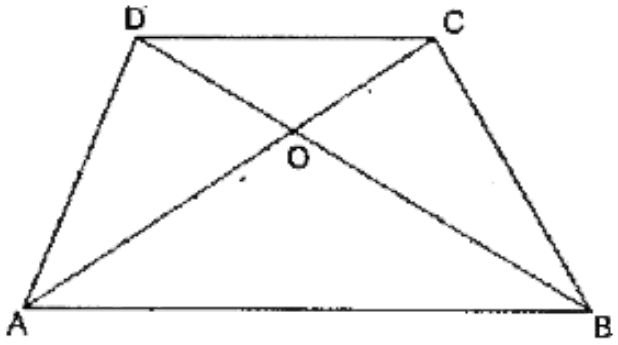
11. In the given figure, write the name of : -

Triangles having O as the vertex.



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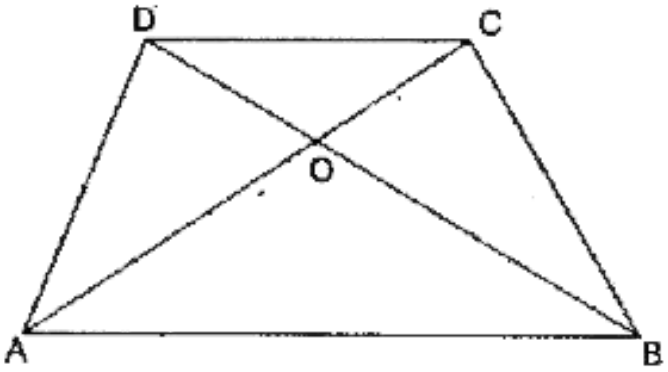
12. In the given figure, write the name of : -

Triangles having A as the vertex.



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13. Fill in the blanks of the following :-

A triangle has ..... vertices

Watch Video Solution

14. Fill in the blanks of the following :-

A triangle has ..... angles.

Watch Video Solution

15. Fill in the blanks of the following :-

A triangle has ..... sides.

Watch Video Solution

16. Fill in the blanks of the following :-

A trianlge divides the plane into ..... parts

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17. Fill in the blanks of the following :-

A triangle has ..... 3 parts.

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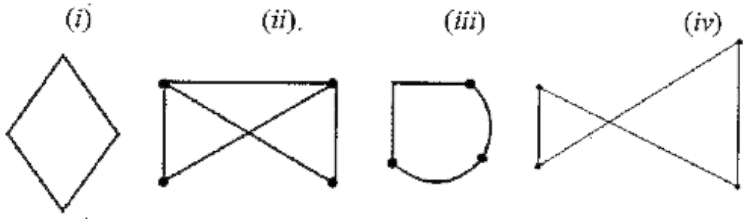
Exercise 8 5

1. Out of the following, Identify the quadrilateral :



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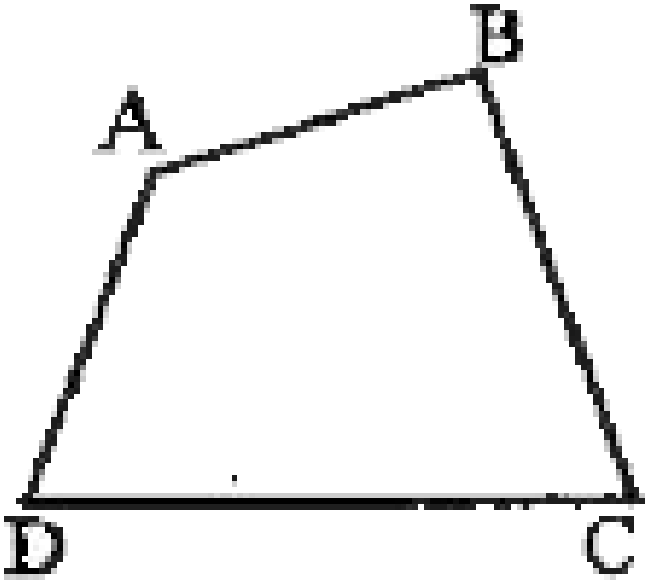
2. Name the given quadrilaterals :



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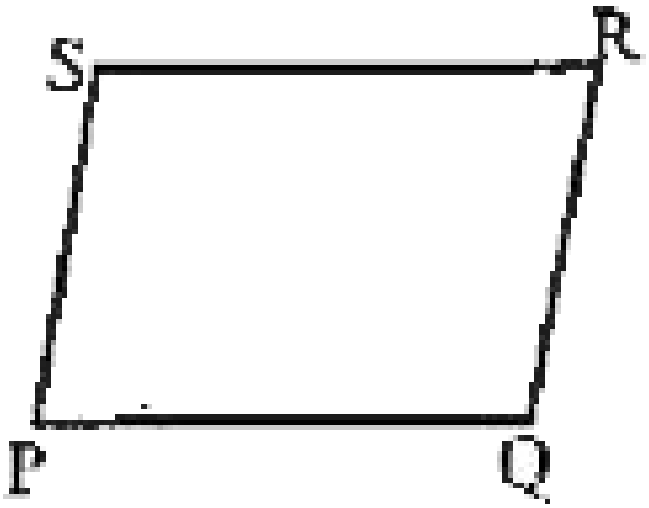
3. Name the given quadrilaterals :



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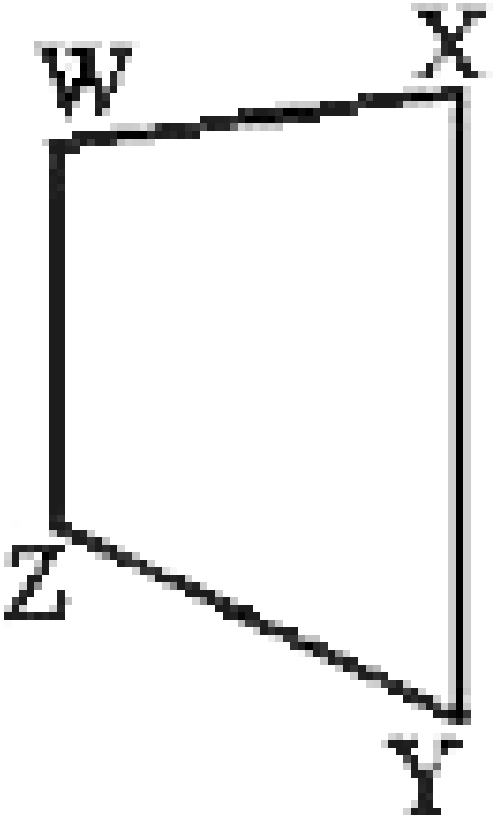
4. Name the given quadrilaterals :



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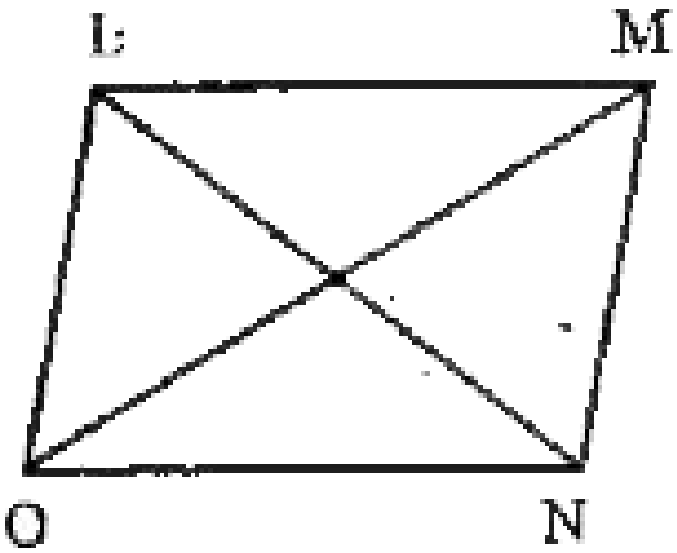
5. Write the name of all vertices, angles, sides, diagonals of the following quadrilaterals :-



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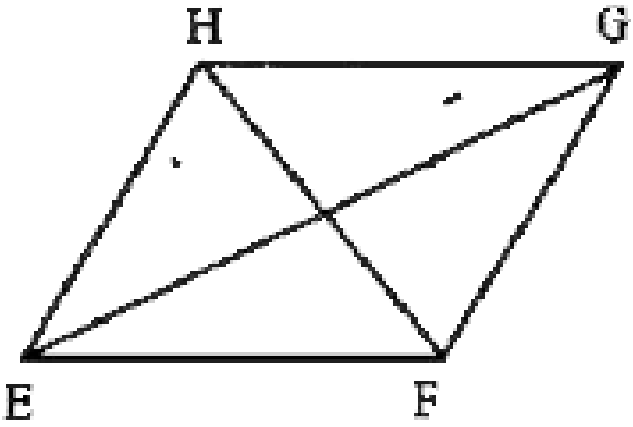
6. Write the name of all vertices, angles, sides, diagonals of the following quadrilaterals :-



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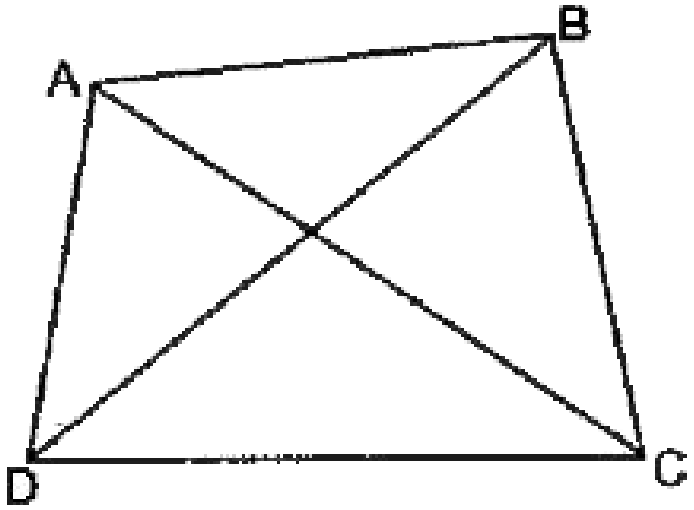
7. For the given quadrilateral ABCD, name :



Side opposite to AB

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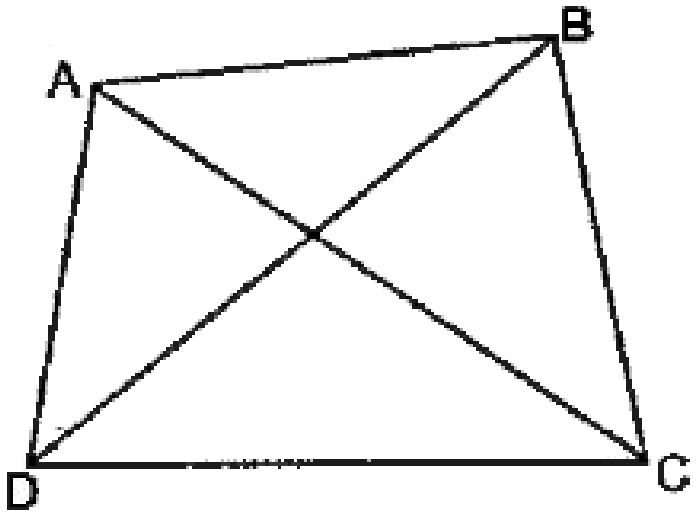
8. For the given quadrilateral ABCD, name :



Angles adjacent to B

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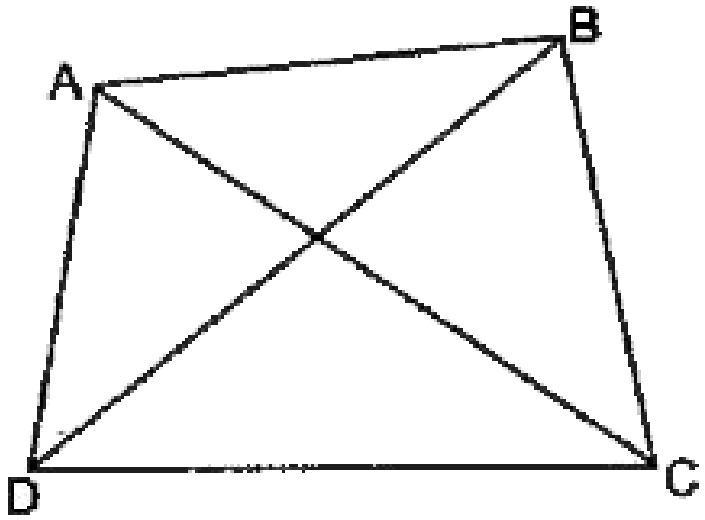
9. For the given quadrilateral ABCD, name :



Diagonal joining B and D

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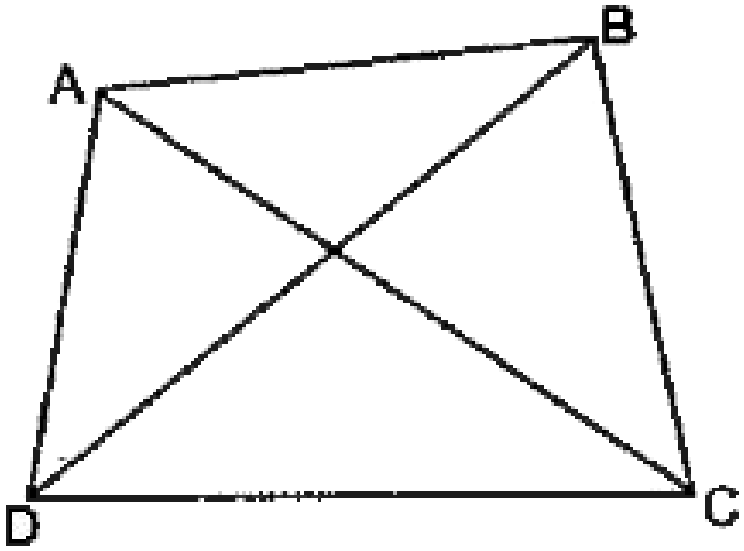
10. For the given quadrilateral ABCD, name :



Angle opposite to A

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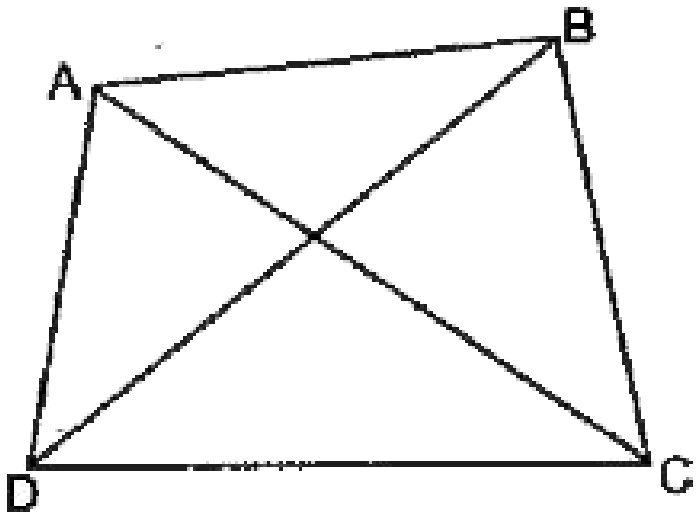
11. For the given quadrilateral ABCD, name :



Sides adjacent to CD

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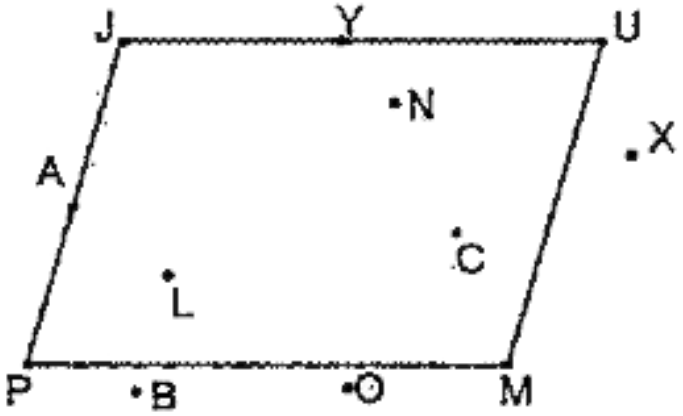
12. In the given quadrilateral JUMP, name the points.

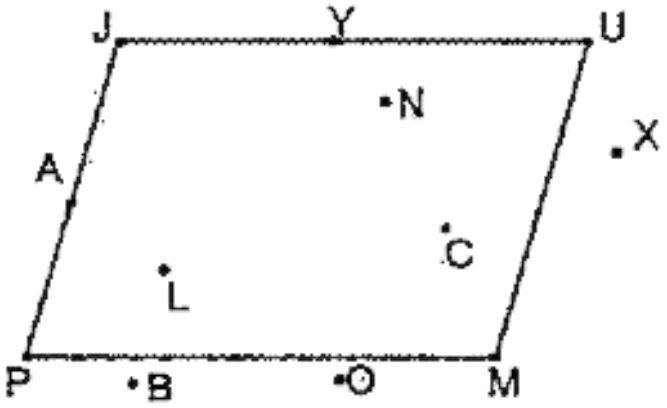
In its interior



Watch Video Solution

13. In the given quadrilateral JUMP, name the points.

In its exterior



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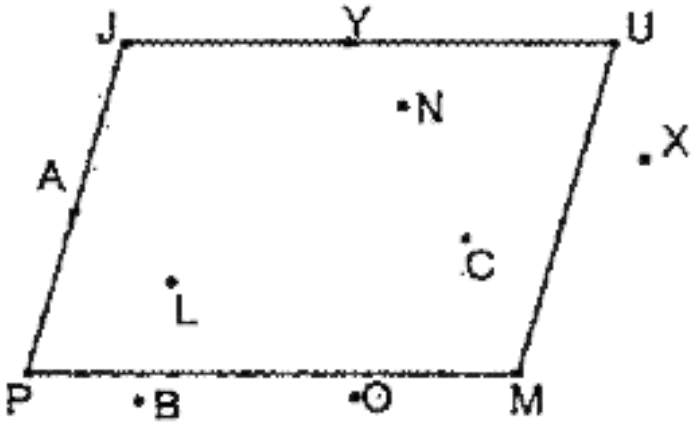
14. In the given quadrilateral JUMP, name the points.

On its boundary



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15. Fill in the blanks :

A quadrilateral has ..... vertices.

Watch Video Solution

16. Fill in the blanks :

A quadrilateral has ..... sides.

Watch Video Solution

17. Fill in the blanks :

A quadrilateral has ..... angles.

Watch Video Solution

18. Fill in the blanks :

A quadrilateral has ..... diagonals.

Watch Video Solution

19. Fill in the blanks :

A diagonal divides the quadrilateral into ..... triangles.

Watch Video Solution

20. Fill in the blanks :

A line segment joining the opposite vertices of a quadrilateral is called its ..... .

Watch Video Solution

21. Fill in the blanks :

The interior and the boundary of a quadrilateral together constitute the ..... region.

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22. State True or False :

A diagonal divides quadrilateral into four triangles.

Watch Video Solution

23. State True or False :

The angle that have a common vertex are called adjacent angles.

Watch Video Solution

24. State True or False :

The sides that have a common vertex are called adjacent sides.

Watch Video Solution

25. State True or False :

A quadrilateral has four diagonals.

Watch Video Solution

26. State True or False :

The quadrilateral region consists of the exterior and the boundary of the quadrilateral.

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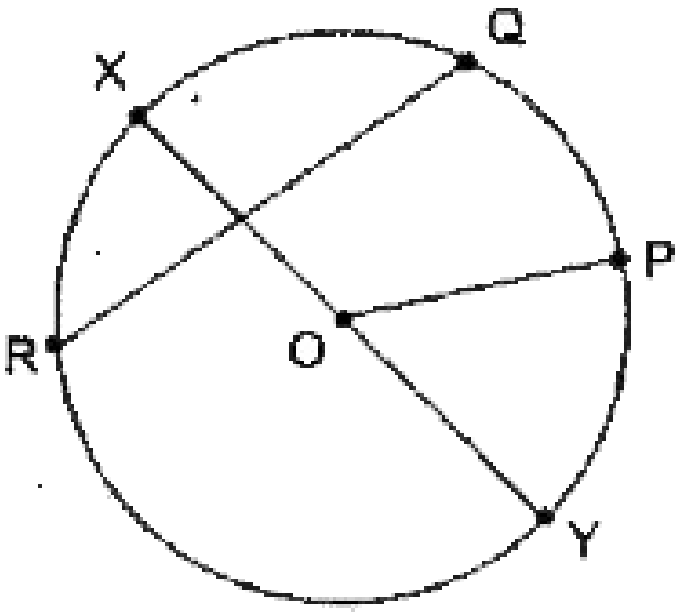
Exercise 8 6

1. In the given figure, write the names of :-



Centre

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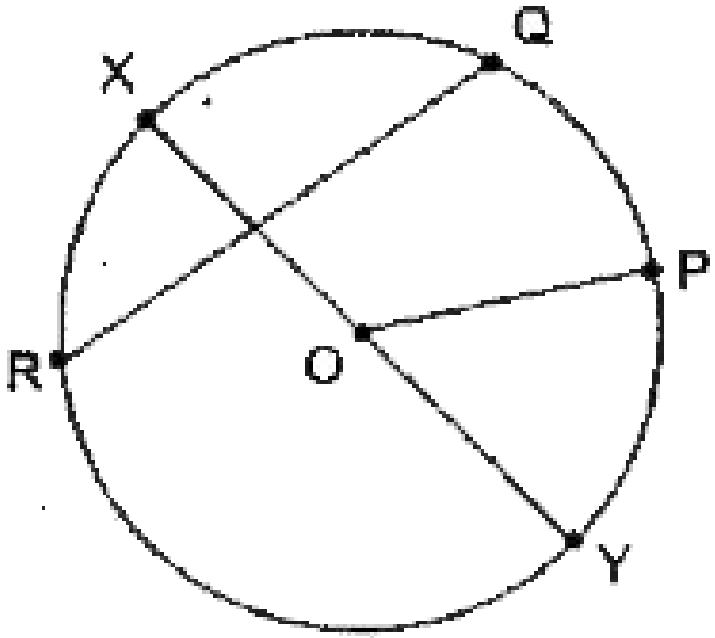
2. In the given figure, write the names of :-



Radii

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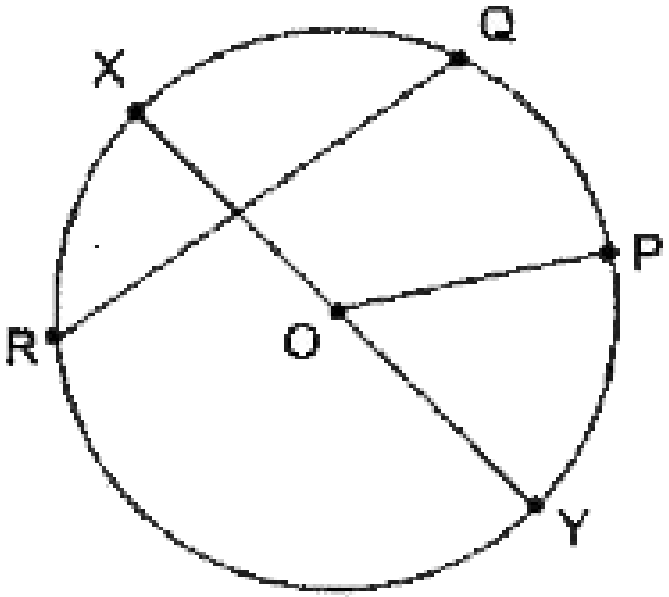
3. In the given figure, write the names of :-



Diameter

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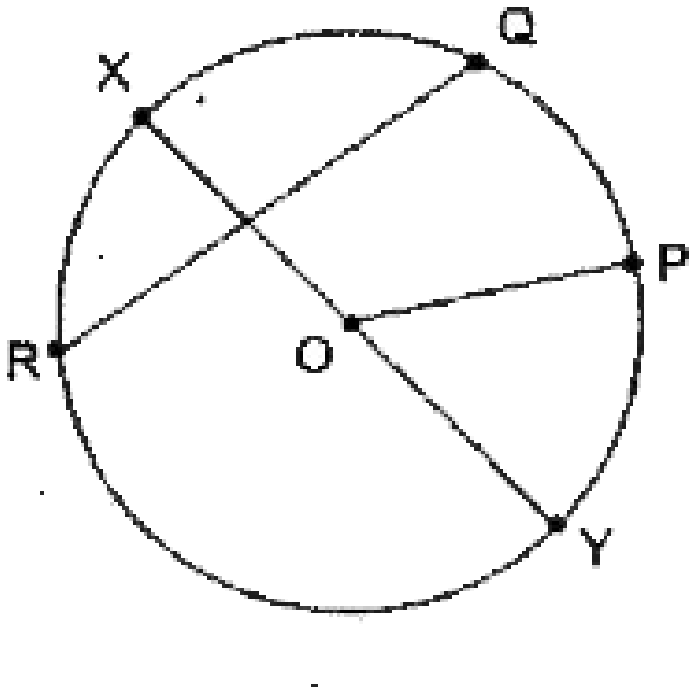
4. In the given figure, write the names of :-



Chord

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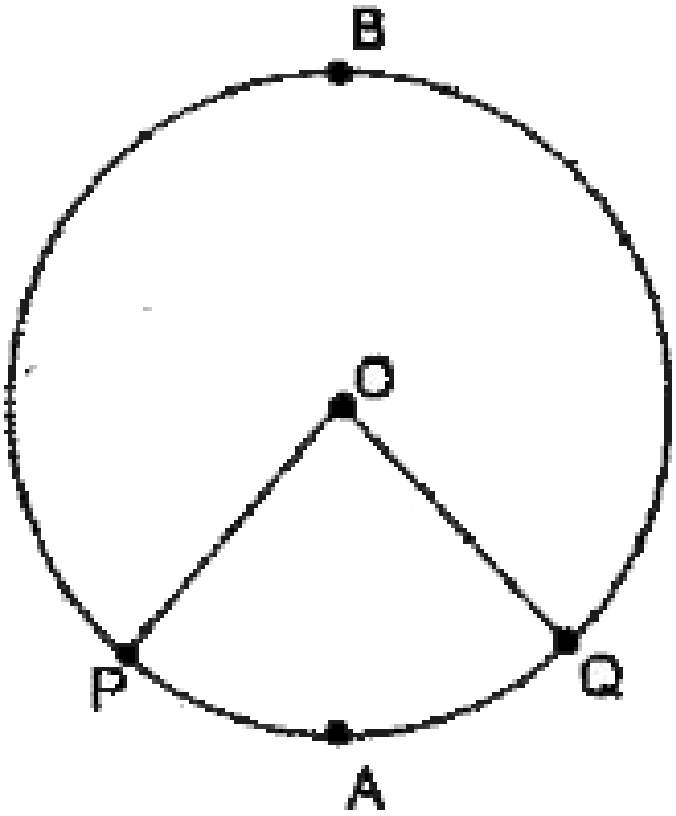
5. In the given figure, write the name of



minor arc

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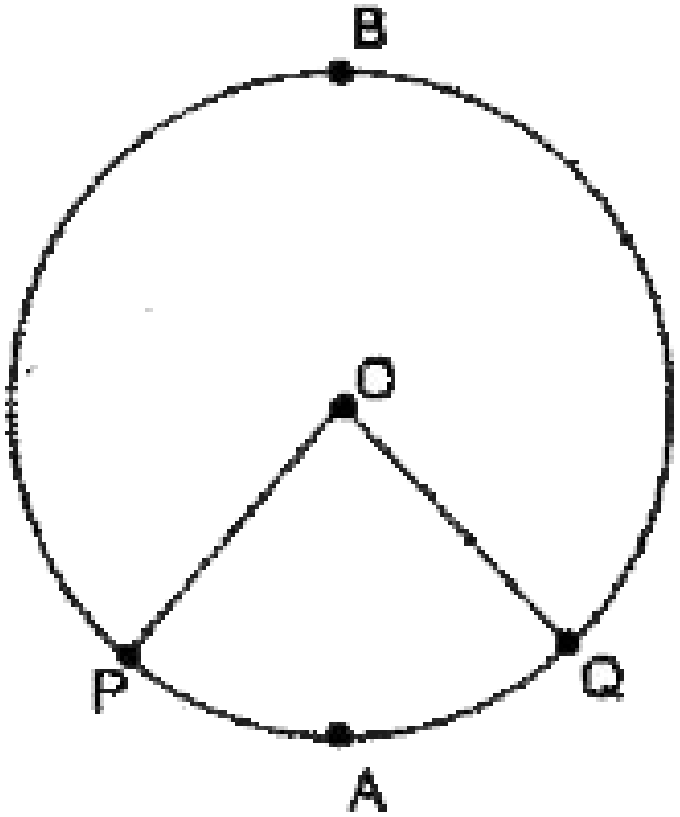
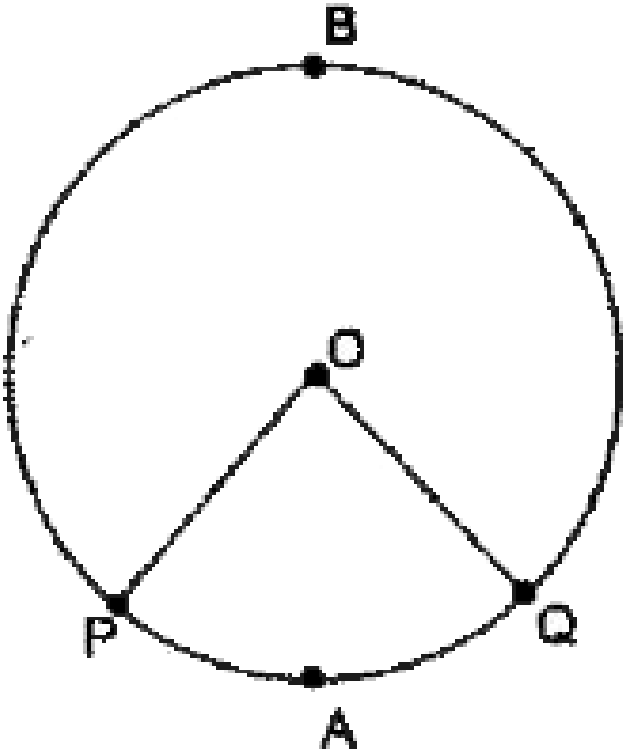
6. In the given figure, write the name of



major arc

Watch Video Solution

7. In the given figure, write the name of



minor sector

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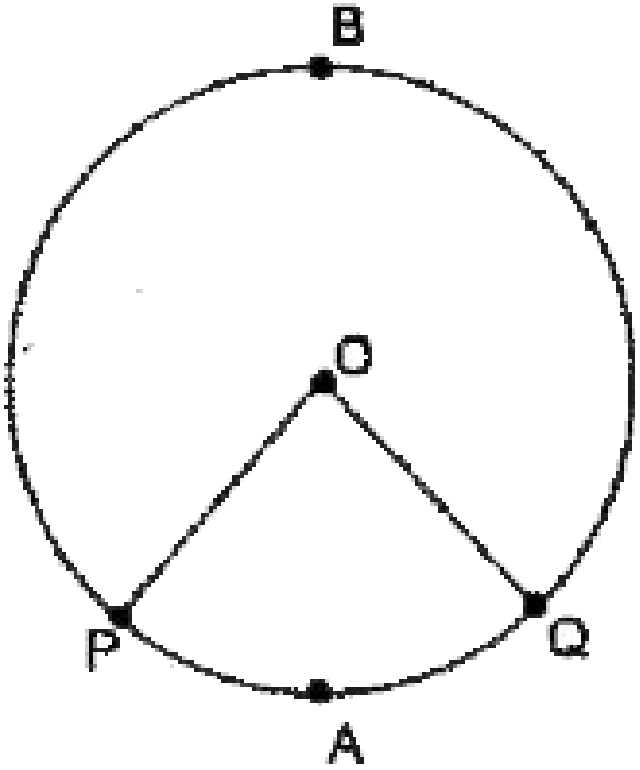
8. In the given figure, write the name of



major sector

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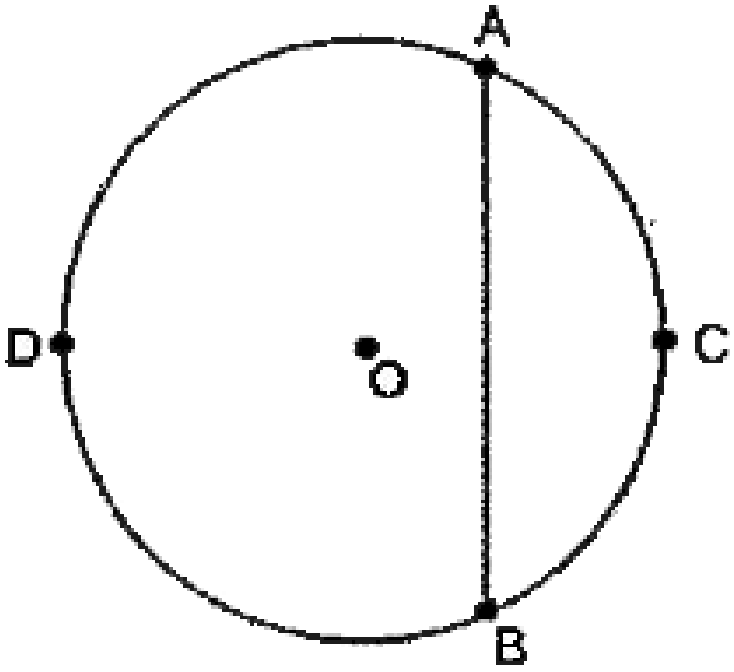
9. In the given figure, write the name of :

Minor segment



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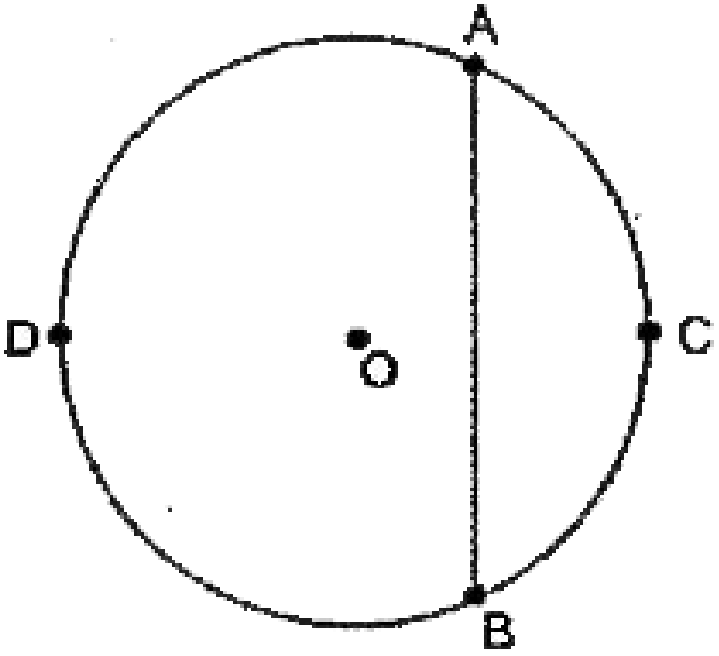
10. In the given figure, write the name of :



Major segment

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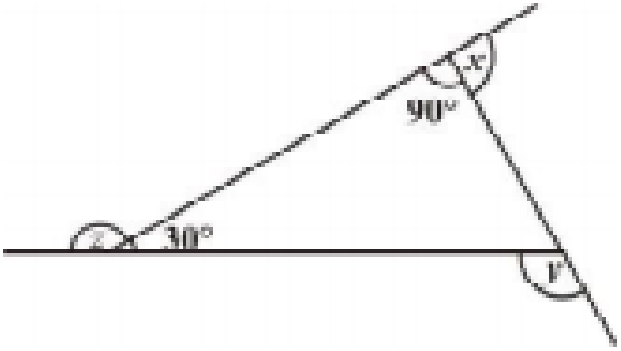
11. Find x+y+z



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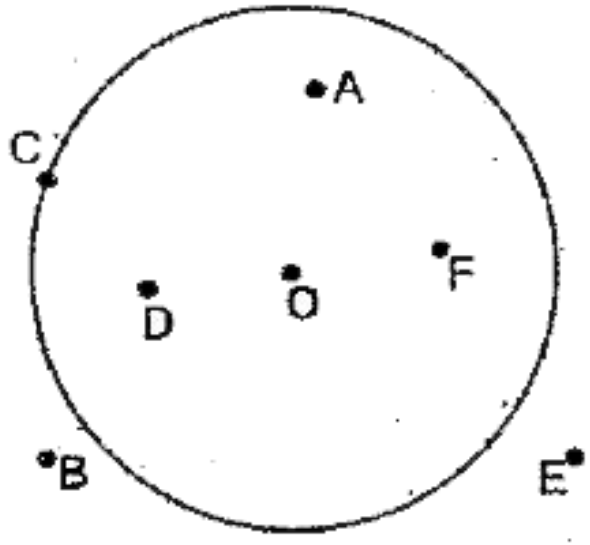
12. In the given figure, name the points :-



On its boundary (circumference)

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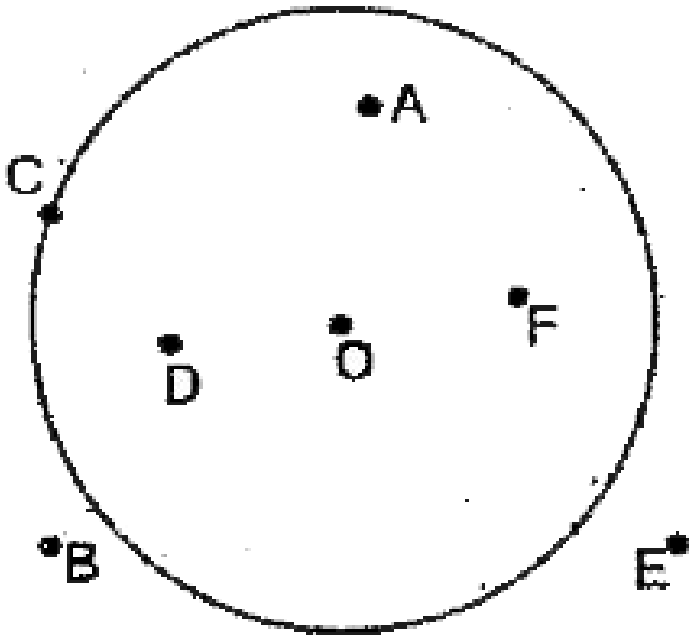
13. In the given figure, name the points :-



In its exterior

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14. Find the diameter of the circle whose radius is :

5 cm

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15. Find the diameter of the circle whose radius is :

4 cm

Watch Video Solution

16. Find the diameter of the circle whose radius is :

10 cm

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17. If the diameter of a circle is 12 cm. Find the radius.

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18. Fill in the blanks :-

The distance around a circle is called ..... .

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19. Fill in the blanks :-

The diameter of a circle is ..... times its radius.

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20. Fill in the blanks :-

The longest chord of circle is ..... .

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21. Fill in the blanks :-

All the radii of a circle are of ..... length.

Watch Video Solution

22. Fill in the blanks :-

The diameter of a circle passes through ..... .

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23. Fill in the blanks :-

A circle divides all the points in a plane into ..... parts.

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24. State true or false : -

The diameter of a circle is equal to its radius.

Watch Video Solution

25. State true or false : -

The diameter is a chord of circle.

Watch Video Solution

26. State true or false : -

A radius is a chord of the circle.

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27. State true or false : -

Every circle has a centre.

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28. State true or false : -

The region enclosed by a chord and arc is called a segment.

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Multiple Choice Questions

1. How many lines can pass through a point ?

A. 1

B. 2

C. 4

D. Infinite

Answer: D

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2. The number of points lie on a line are .....

.

A. 2

B. 4

C. 1

D. Infinite

Answer: D

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3. The number of lines passes through two points are ..... .

A. 1

B. 2

C. 3

D. Infinite

Answer: A

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4. In how many parts, a closed curve divides the plane ?

A. 1

B. 2

C. 3

D. 4

Answer: C

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5. A quadrilateral has ..... Diagonals.

A. 1

B. 2

C. 3

D. 4

Answer: B

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6. Which one of the following is not a polynomial ?

A. Triangle

B. Pentagon

C. Circle

D. Quadrilateral

Answer: C

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7. A triangle has _____ parts.

A. 3

B. 6

C. 9

D. 2

Answer: B

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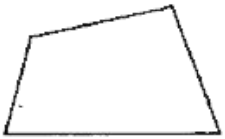
8. Which of the following is not a quarilateral ?

A. 

B. 

C. 

D. 

Answer: B

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9. A line segment joining the opposite vertices of a quadrilateral is called its ..... .

A. Diagonal

B. Side

C. Angle

D. Region

Answer: A

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10. The radius of a circle is 4 cm then the diameter is ..... .

A. 8 cm

B. 2 cm

C. 6 cm

D. 12 cm

Answer: A

 Watch Video Solution

11. If the diameter of a circle is 12 cm. Find the radius.

A. 24 cm

B. 6 cm

C. 18 cm

D. 4 cm

Answer: B

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12. The longest chord of a circle is ..... .

A. Arc

B. Perimeter

C. Diameter

D. Radius

Answer: C

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