

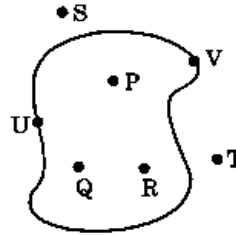
INDIAN SCHOOL AL WADI AL KABIR

Class VI, Mathematics (2023-24)

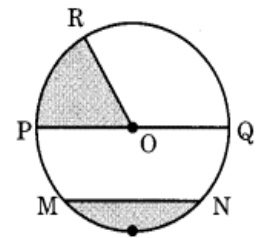
Worksheet DTQ – BASIC GEOMETRICAL IDEAS

SHORT ANSWER TYPE QUESTIONS- 7 QUESTIONS. (2 Marks each)

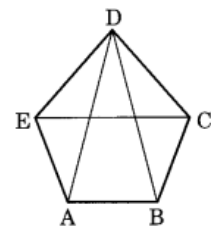
- Q1.** Identify the points which are
 (1) In the interior
 (2) In the exterior
 (3) On the closed curve.



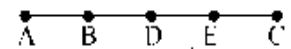
- Q2.** Identify
 (1) sector
 (2) Diameter
 (3) chord
 (4) segment



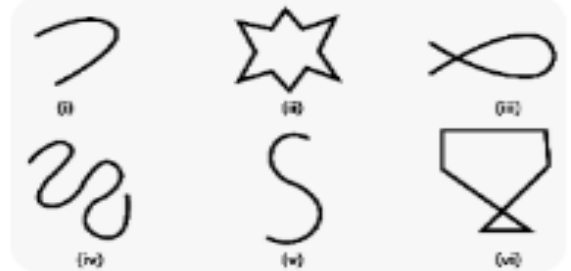
- Q3.** In given figure, name all line segments



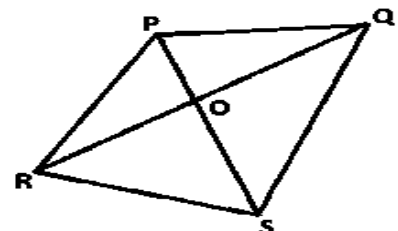
- Q4.** How many line segments are there? Name them.



- Q5.** Classify as open or closed curve.

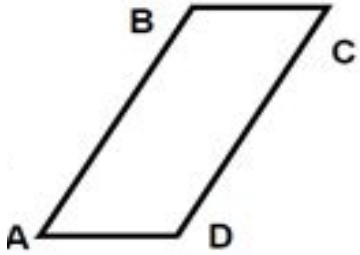


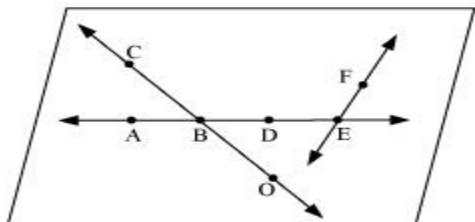
- Q6.** Observe the figure and answer the following:
 1. What type of polygon is PQRS
 2. Name a pair of sides which are not adjacent.

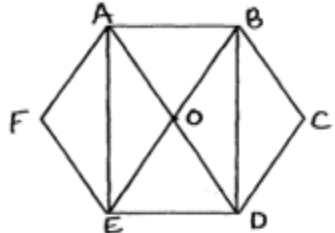


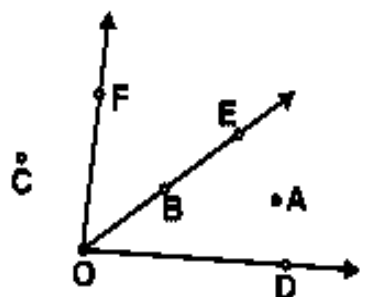
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| Q7. | Draw ΔPQR and mark the following: <ol style="list-style-type: none"> 1. Points M and N in the interior. 2. Points X and Y in the exterior. |
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SHORT ANSWER TYPE- 5 QUESTIONS. (3 Marks each)

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| Q8. | Refer the figure and answer the following questions. <ol style="list-style-type: none"> 1) Name the polygon. 2) Mention all the sides 3) Name two pairs of adjacent sides 4) Name opposite angles 5) Draw the diagonals and name them. |  |
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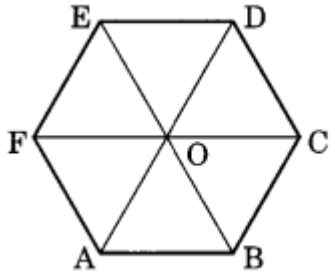
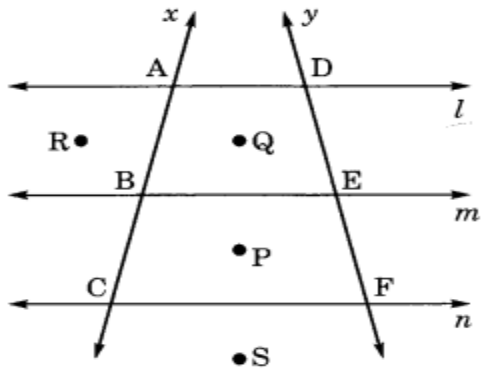
| | | |
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| Q9. | Use the figure to name <ol style="list-style-type: none"> 1. Two lines passing through the point B. 2. Two rays with initial point E. 3. The points lie on line CO. |  |
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| | | |
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| Q10 | From the figure identify the following <ol style="list-style-type: none"> 1. Three triangles 2. The diagonal of the quadrilateral OBDC. 3. Three quadrilaterals. |  |
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| Q11. | from the figure, name <ol style="list-style-type: none"> 1. Three angles 2. The points lie in the interior of $\angle DOF$. 3. The points lie in the exterior of $\angle EOF$. |  |
|-------------|---|---|

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| Q12. | From the figure identify: <ol style="list-style-type: none"> 1. Three rays 2. Two angles 3. The points lie on line AC. |  |
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LONG ANSWER TYPE- 3 QUESTIONS. (4 Marks each)

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| <p>Q13.</p> | <p>Look at the figure and answer the following (CBQ)</p> <ol style="list-style-type: none"> 1.Name all the sides of the polygon. 2. Any two pairs of adjacent sides. 3.Name all line segments which intersect at one point. 4. Name all the diagonals. |  |
| <p>Q14.</p> | <p>From the figure answer the following Questions (CBQ)</p> <p>Name</p> <ol style="list-style-type: none"> 1. The points lie on the line x. 2. The lines passing through three points. 3. The point lies in the interior of quadrilateral ABED. 4. Two pairs of intersecting lines. 5. Two pairs of parallel lines. |  |
| <p>Q15.</p> | <p>Draw circle and mark the following</p> <ol style="list-style-type: none"> (1) Centre P (2) Diameter QR (3) Radius PQ (4) Chord AB (5) Sector (6) Arc (7) Segment | |

ANSWERS

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|-------------|---|-------------|--|-------------|---|
| Q1. | 1. P, Q&R 2. S&T 3. U & V | Q2. | 1. POR(Shaded) 2. PQ 3. MN 4. MN (shaded) | Q3. | DE, DC, AE, CB, AB EC, AD, DB |
| Q4. | AB, AD, AE, AC, BD, BE, BC, DE DC, EC | Q5. | Open- i, iv, v Closed -ii, iii, vi | Q6. | 1.Quadrilateral. 2.PQ & RS |
| Q7. | | Q8. | 1. Quadrilateral ABCD 2. AB, BC, CD, DA 3. BC & CD, AB & BC 4. BC & AD, AB & CD 5. AC & BD | Q9. | 1. Lines OC & AE 2. Ray EF & EA 3. C, B, O |
| Q10. | 1. $\Delta AOB, \Delta AOE, \Delta BOD$ 2. BD 3. AEOF BODC ABDE | Q11. | 1. $\angle FOE, \angle EOD, \angle FOD$ 2. A, B, E 3. C, A, D | Q12. | 1. Rays BD, BA, BC 2. $\angle ABD, \angle DBC$ 3. A, B, C |
| Q13. | 1. AB, BC, CD, DE, EF, FA 2. ED & DC, DC& CB 3. AD, BE, CF, DA 4. AD, BE, CF, DA | Q14. | 1. A, B, C 2. x and y 3. Q 4. x and l, x and m 5. l & m, m & n | Q15. | |