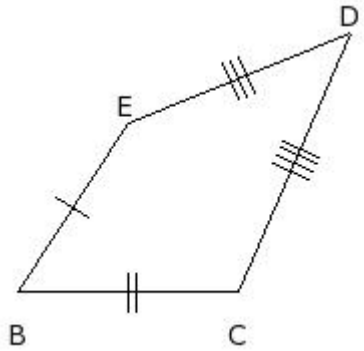
EduSahara™ Learning Center Assignment

Grade : Class IX, SSC
Chapter : Quadrilaterals
Name : Quadrilateral Concepts

---

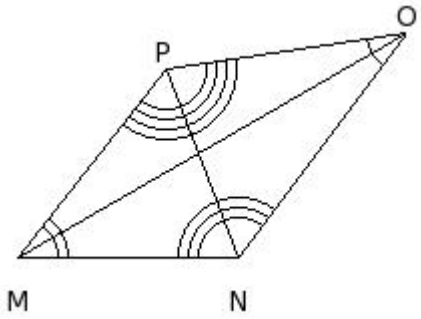
1. Identify the figure below



(i) pentagon (ii) triangle (iii) quadrilateral (iv) angle (v) octagon

---

2. The sides of the quadrilateral are



(i) $\overline{MN}$, $\overline{NO}$, $\overline{OP}$, $\overline{PM}$

(ii) $\overline{MO}$, $\overline{ON}$, $\overline{NP}$, $\overline{PM}$

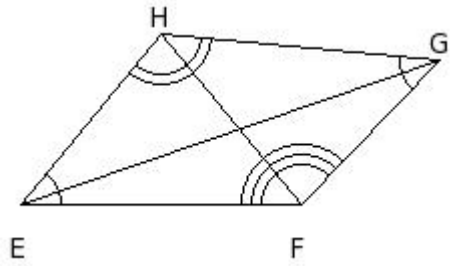
(iii) $\overline{MN}$, $\overline{NP}$, $\overline{PQ}$, $\overline{QM}$

(iv) $\overline{MN}$, $\overline{NO}$, $\overline{OQ}$, $\overline{QM}$

(v) $\overline{MO}$, $\overline{OP}$, $\overline{PN}$, $\overline{NM}$

---

3. The name of the quadrilateral is



(i) EFGH

(ii) EFGI

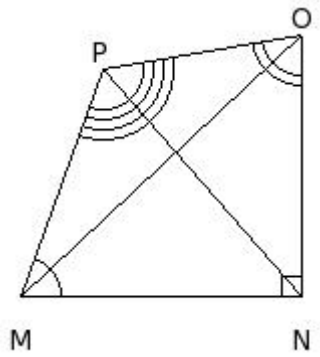
(iii) EGHF

(iv) EGFH

(v) EFHI

---

4. The angles of the quadrilateral are



(i) ∠M , ∠N , ∠O , ∠R

(ii) ∠M , ∠N , ∠P , ∠Q

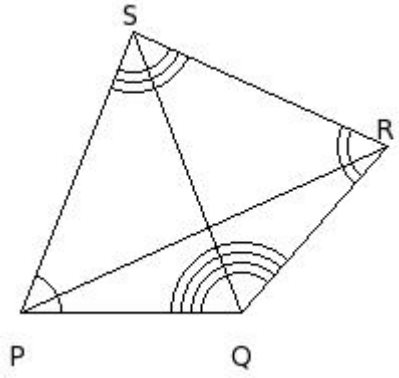
(iii) ∠M , ∠N , ∠O , ∠P

(iv) ∠M , ∠N , ∠O , ∠Q

(v) ∠M , ∠N , ∠P , ∠R

---

5. The vertices of the quadrilateral are



(i) P , Q , S , T

(ii) P , Q , R , U

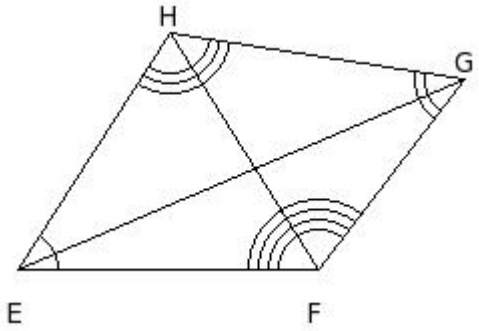
(iii) P , Q , S , U

(iv) P , Q , R , T

(v) P , Q , R , S

---

6. The diagonals of the quadrilateral are



(i) $\overline{GF}$, $\overline{EH}$

(ii) $\overline{GH}$, $\overline{EF}$

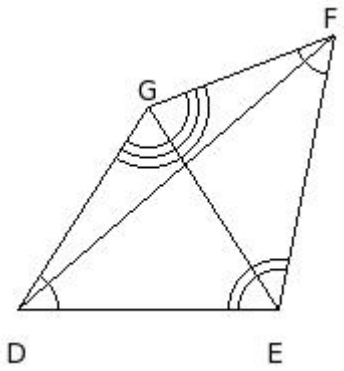
(iii) $\overline{FI}$, $\overline{EH}$

(iv) $\overline{FH}$, $\overline{EG}$

(v) $\overline{FI}$, $\overline{EG}$

---

7. The adjacent sides of the quadrilateral are



(i) $\overline{DF}$ & $\overline{FE}$, $\overline{FE}$ & $\overline{EG}$, $\overline{EG}$ & $\overline{GD}$, $\overline{GD}$ & $\overline{DF}$

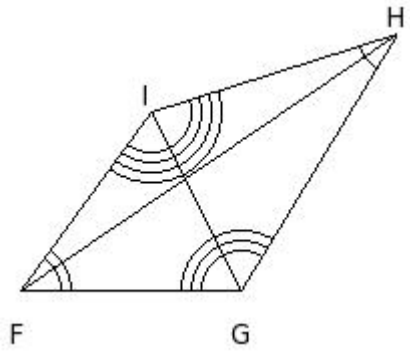
(ii) $\overline{DF}$ & $\overline{FG}$, $\overline{FG}$ & $\overline{GE}$, $\overline{GE}$ & $\overline{ED}$, $\overline{ED}$ & $\overline{DF}$

(iii) $\overline{DE}$ & $\overline{EF}$, $\overline{EF}$ & $\overline{FG}$, $\overline{FG}$ & $\overline{GD}$, $\overline{GD}$ & $\overline{DE}$

(iv) $\overline{DE}$ & $\overline{EF}$, $\overline{EF}$ & $\overline{FH}$, $\overline{FH}$ & $\overline{HD}$, $\overline{HD}$ & $\overline{DE}$

(v) $\overline{DE}$ & $\overline{EG}$, $\overline{EG}$ & $\overline{GH}$, $\overline{GH}$ & $\overline{HD}$, $\overline{HD}$ & $\overline{DE}$

8. The opposite sides of the quadrilateral are



(i) $\overline{FG}$ & $\overline{HJ}$, $\overline{GH}$ & $\overline{JF}$

(ii) $\overline{FH}$ & $\overline{GI}$, $\overline{HG}$ & $\overline{IF}$

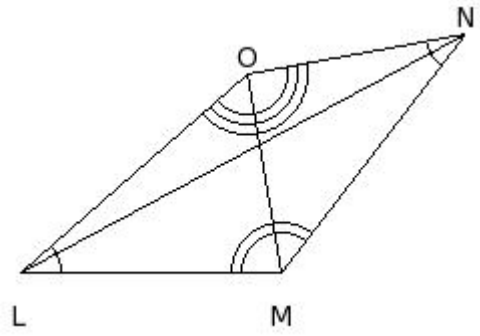
(iii) $\overline{FG}$ & $\overline{HI}$, $\overline{GH}$ & $\overline{IF}$

(iv) $\overline{FG}$ & $\overline{IJ}$, $\overline{GI}$ & $\overline{JF}$

(v) $\overline{FH}$ & $\overline{IG}$, $\overline{HI}$ & $\overline{GF}$

---

9. The adjacent angles of the quadrilateral are



(i) ∠L & ∠M , ∠M & ∠N , ∠N & ∠P , ∠P & ∠L

(ii) ∠L & ∠N , ∠N & ∠O , ∠O & ∠M , ∠M & ∠L

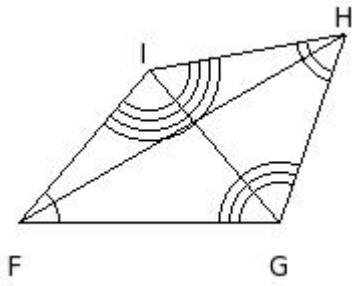
(iii) ∠L & ∠M , ∠M & ∠O , ∠O & ∠P , ∠P & ∠L

(iv) ∠L & ∠N , ∠N & ∠M , ∠M & ∠O , ∠O & ∠L

(v) ∠L & ∠M , ∠M & ∠N , ∠N & ∠O , ∠O & ∠L

---

10. The opposite angles of the quadrilateral are



(i) ∠F & ∠H , ∠G & ∠I

(ii) ∠F & ∠I , ∠H & ∠G

(iii) ∠F & ∠G , ∠H & ∠I

(iv) ∠F & ∠H , ∠G & ∠J

(v) ∠F & ∠I , ∠G & ∠J

---

11. The measures of three angles of a quadrilateral are 66.42° , 97.29° and 73.62° . Find the fourth angle

(i) 137.67° (ii) 122.67° (iii) 152.67° (iv) 132.67° (v) 127.67°

---

12. Sum of the interior angles in a quadrilateral is

(i) 370° (ii) 365° (iii) 375° (iv) 360° (v) 390°

---

13. How many diagonals does a quadrilateral have?

(i) (-1) (ii) 5 (iii) 1 (iv) 3 (v) 2

---

14. Three angles of quadrilateral measure 44.42°, 57.42° and 147.75° respectively. Find the measure of the fourth angle

(i) 108.41° (ii) 109.41° (iii) 110.41° (iv) 111.41° (v) 112.41°

---

15. Three angles of a quadrilateral are equal and the fourth angle measure 92.48°. What is the measure of each of the equal angles?

(i) 88.17° (ii) 91.17° (iii) 89.17° (iv) 90.17° (v) 87.17°

---

16. Two angles of a quadrilateral are of measure 65.96° and 126.74° respectively and the other two angles are equal. Find the measure of each of the equal angles.

(i) 84.65° (ii) 82.65° (iii) 83.65° (iv) 85.65° (v) 81.65°

---

17. A quadrilateral has three acute angles, each measuring 61°. What is the measure of its fourth angle?

(i) 179.00° (ii) 176.00° (iii) 178.00° (iv) 177.00° (v) 175.00°

Assignment Key

1) (iii)
2) (i)
3) (i)
4) (iii)
5) (v)
6) (iv)
7) (iii)
8) (iii)
9) (v)
10) (i)
11) (ii)
12) (iv)
13) (v)
14) (iii)
15) (iii)
16) (iii)
17) (iv)