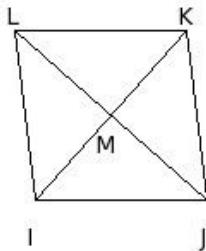




1. Two angles of a quadrilateral are of measure 115.37° and 130.32° respectively and the other two angles are equal. Find the measure of each of the equal angles.

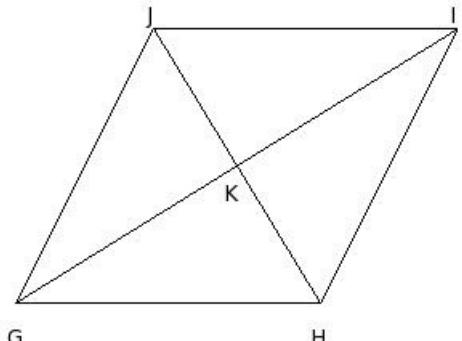
(i) 58.16° (ii) 57.16° (iii) 55.16° (iv) 56.16° (v) 59.16°

2. In rhombus IJKL, diagonals \overline{IK} and \overline{JL} intersect at M. Then $\angle MLI \neq$



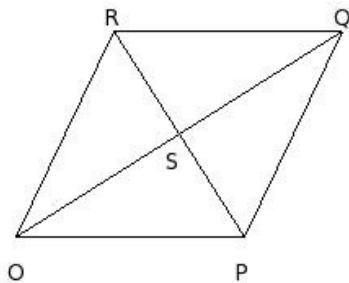
(i) $\angle IJM$ (ii) $\angle LMK$ (iii) $\angle KLM$ (iv) $\angle MJK$

3. In rhombus GHIJ, diagonals \overline{GI} and \overline{HJ} intersect at K. Then $\angle KIJ \neq$



(i) $\angle JGK$ (ii) $\angle GKJ$ (iii) $\angle KGH$ (iv) $\angle HIK$

4. In rhombus OPQR, diagonals \overline{OQ} and \overline{PR} intersect at S. Then OS =

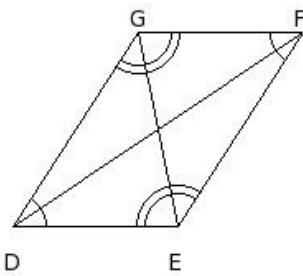


(i) QS (ii) PS (iii) RS (iv) RO

5. Name all quadrilaterals whose all angles are right angles

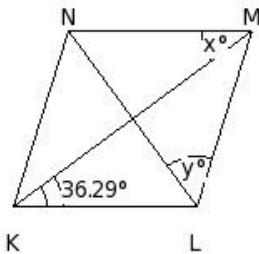
(i) square,rectangle (ii) square,kite (iii) square,parallelogram (iv) square,rhombus
(v) parallelogram,square,rhombus,rectangle

6. The adjacent sides of the parallelogram are



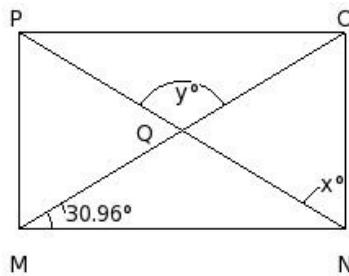
- (i) $\overline{DE} \& \overline{EG}$, $\overline{EG} \& \overline{GH}$, $\overline{GH} \& \overline{HD}$, $\overline{HD} \& \overline{DE}$
- (ii) $\overline{DF} \& \overline{FE}$, $\overline{FE} \& \overline{EG}$, $\overline{EG} \& \overline{GD}$, $\overline{GD} \& \overline{DF}$
- (iii) $\overline{DE} \& \overline{EF}$, $\overline{EF} \& \overline{FG}$, $\overline{FG} \& \overline{GD}$, $\overline{GD} \& \overline{DE}$
- (iv) $\overline{DE} \& \overline{EF}$, $\overline{EF} \& \overline{FH}$, $\overline{FH} \& \overline{HD}$, $\overline{HD} \& \overline{DE}$
- (v) $\overline{DF} \& \overline{FG}$, $\overline{FG} \& \overline{GE}$, $\overline{GE} \& \overline{ED}$, $\overline{ED} \& \overline{DF}$

7. In the figure given below, KLMN is a rhombus. Find the values of x and y



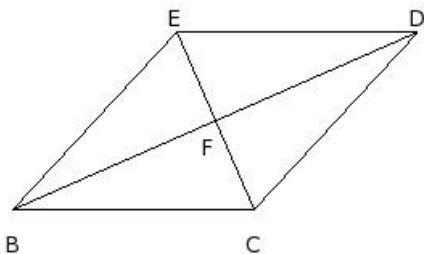
- (i) $x=38.29^\circ, y=55.71^\circ$
- (ii) $x=35.29^\circ, y=52.71^\circ$
- (iii) $x=37.29^\circ, y=54.71^\circ$
- (iv) $x=36.29^\circ, y=53.71^\circ$
- (v) $x=34.29^\circ, y=51.71^\circ$

8. In the figure given below, MNOP is a rectangle. Find the values of x and y



- (i) $x=61.04^\circ, y=120.08^\circ$
- (ii) $x=57.04^\circ, y=116.08^\circ$
- (iii) $x=60.04^\circ, y=119.08^\circ$
- (iv) $x=59.04^\circ, y=118.08^\circ$
- (v) $x=58.04^\circ, y=117.08^\circ$

9. In rhombus BCDE, diagonals \overline{BD} and \overline{CE} intersect at F. Then $\angle DFC \neq$

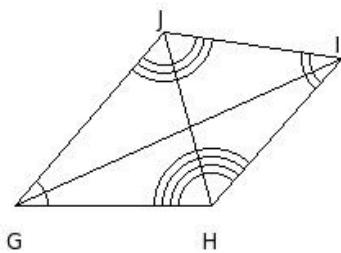


- (i) $\angle BFE$
- (ii) $\angle CFB$
- (iii) $\angle EFD$
- (iv) $\angle EBC$

10. Name all quadrilaterals whose opposite sides are equal

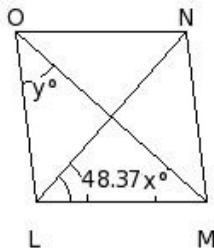
- (i) parallelogram,square,rhombus,rectangle
- (ii) square,parallelogram
- (iii) square,rectangle
- (iv) square,kite
- (v) rectangle,rhombus

11. The opposite angles of the quadrilateral are



- (i) $\angle G \& \angle H$, $\angle I \& \angle J$ (ii) $\angle G \& \angle J$, $\angle I \& \angle H$ (iii) $\angle G \& \angle J$, $\angle H \& \angle K$ (iv) $\angle G \& \angle I$, $\angle H \& \angle J$
- (v) $\angle G \& \angle I$, $\angle H \& \angle K$

12. In the figure given below, LMNO is a rhombus. Find the values of x and y

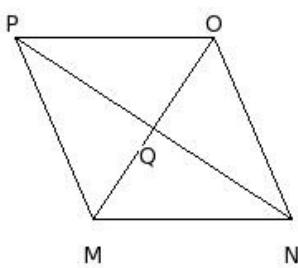


- (i) $x=43.63^\circ, y=43.63^\circ$ (ii) $x=39.63^\circ, y=39.63^\circ$ (iii) $x=40.63^\circ, y=40.63^\circ$ (iv) $x=41.63^\circ, y=41.63^\circ$
- (v) $x=42.63^\circ, y=42.63^\circ$

13. Three angles of a quadrilateral are equal and the fourth angle measure 66.03° . What is the measure of each of the equal angles?

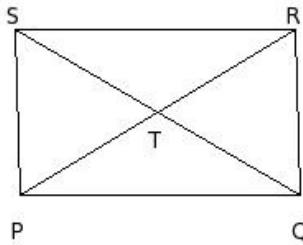
- (i) 96.99° (ii) 97.99° (iii) 98.99° (iv) 99.99° (v) 95.99°

14. In rhombus MNOP, diagonals \overline{MO} and \overline{NP} intersect at Q. Then $\angle QNO \neq$



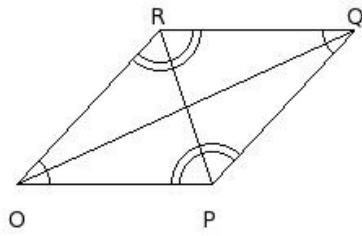
- (i) $\angle PQO$ (ii) $\angle OPQ$ (iii) $\angle QPM$ (iv) $\angle MNQ$

15. In parallelogram PQRS, diagonals \overline{QS} and \overline{PR} intersect at T. Then $QR =$



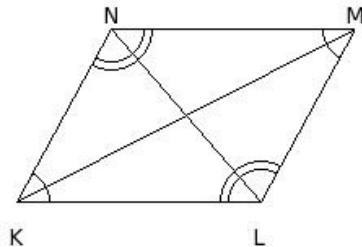
- (i) PR (ii) PQ (iii) QS (iv) RS (v) SP

16. The adjacent angles of the parallelogram are



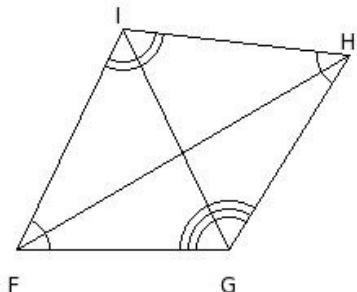
- (i) $\angle O \& \angle Q, \angle Q \& \angle R, \angle R \& \angle P, \angle P \& \angle O$ (ii) $\angle O \& \angle P, \angle P \& \angle Q, \angle Q \& \angle R, \angle R \& \angle O$
- (iii) $\angle O \& \angle Q, \angle Q \& \angle P, \angle P \& \angle R, \angle R \& \angle O$ (iv) $\angle O \& \angle P, \angle P \& \angle Q, \angle Q \& \angle S, \angle S \& \angle O$
- (v) $\angle O \& \angle P, \angle P \& \angle R, \angle R \& \angle S, \angle S \& \angle O$

17. The opposite angles of the parallelogram are



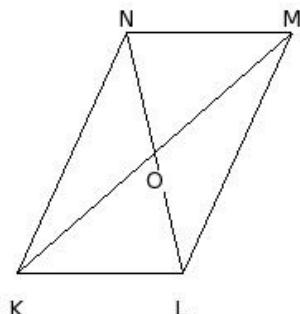
- (i) $\angle K \& \angle L, \angle M \& \angle N$ (ii) $\angle K \& \angle N, \angle M \& \angle L$ (iii) $\angle K \& \angle M, \angle L \& \angle O$ (iv) $\angle K \& \angle M, \angle L \& \angle N$
- (v) $\angle K \& \angle N, \angle L \& \angle O$

18. The name of the quadrilateral is



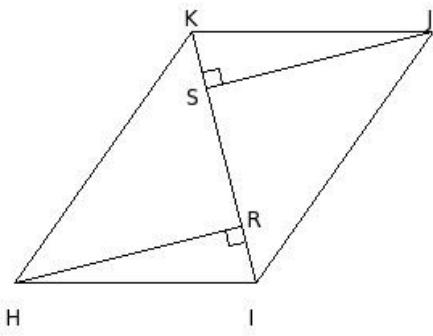
- (i) FHIG (ii) FHGI (iii) FGIJ (iv) FGHI (v) FGHJ

19. In parallelogram KLMN, diagonals \overline{LN} and \overline{KM} intersect at O. Then $MO =$



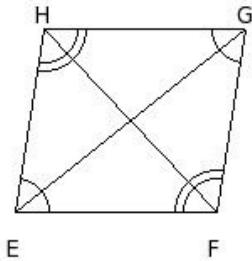
- (i) NK (ii) LO (iii) KO (iv) LM (v) NO

20. In the given figure, HIJK is a parallelogram. HR and JS are perpendicular to the diagonal IK. Given $\angle SJK = 14^\circ$, find $\angle KIH$



- (i) 75° (ii) 74° (iii) 77° (iv) 78° (v) 76°

21. The vertices of the parallelogram are

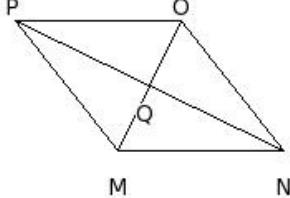


- (i) E, F, H, I (ii) E, F, G, J (iii) E, F, G, H (iv) E, F, H, J (v) E, F, G, I

22. Which of the following statements are true?

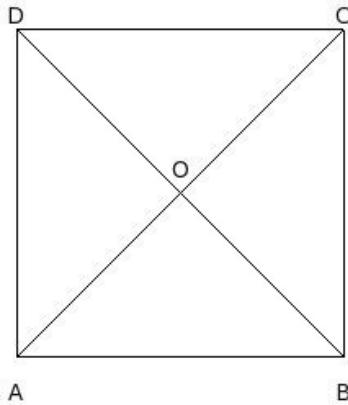
- a) In a parallelogram, adjacent angles are supplementary
 - b) In a parallelogram, both adjacent angles can be right angles
 - c) In a parallelogram, adjacent angles are complementary
 - d) In a parallelogram, both adjacent angles can be obtuse
 - e) In a parallelogram, both adjacent angles can be acute
- (i) {d,b} (ii) {e,c,a} (iii) {c,a} (iv) {d,b,a} (v) {a,b}

23. In rhombus MNOP, diagonals \overline{MO} and \overline{NP} intersect at Q. Then $\angle NQM \neq$



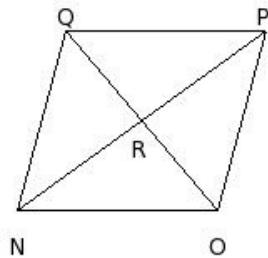
- (i) $\angle OQN$ (ii) $\angle PQQ$ (iii) $\angle PMN$ (iv) $\angle MQP$

24. In the adjoining figure, ABCD is a rhombus whose diagonals intersect at O.
If $\angle OAB : \angle ABO = 3 : 3$, find the angles of $\triangle OAB$.



- (i) $O=90^\circ, A=45^\circ, B=45^\circ$ (ii) $O=88^\circ, A=47^\circ, B=45^\circ$ (iii) $O=90^\circ, A=43^\circ, B=47^\circ$ (iv) $O=92^\circ, A=45^\circ, B=43^\circ$
(v) $O=88^\circ, A=45^\circ, B=47^\circ$

25. In parallelogram NOPQ, diagonals \overline{OQ} and \overline{NP} intersect at R. Then $\angle NOP =$



- (i) $\angle OPQ$ (ii) $\angle QNO$ (iii) $\angle PQN$ (iv) $\angle PQR$ (v) $\angle NOR$

Assignment Key

| | | | | | |
|-----------|---------|-----------|----------|-----------|----------|
| 1) (ii) | 2) (ii) | 3) (ii) | 4) (i) | 5) (i) | 6) (iii) |
| 7) (iv) | 8) (iv) | 9) (iv) | 10) (i) | 11) (iv) | 12) (iv) |
| 13) (ii) | 14) (i) | 15) (v) | 16) (ii) | 17) (iv) | 18) (iv) |
| 19) (iii) | 20) (v) | 21) (iii) | 22) (v) | 23) (iii) | 24) (i) |
| 25) (iii) | | | | | |

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