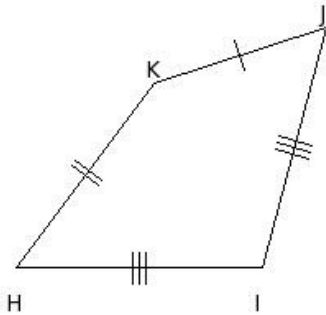


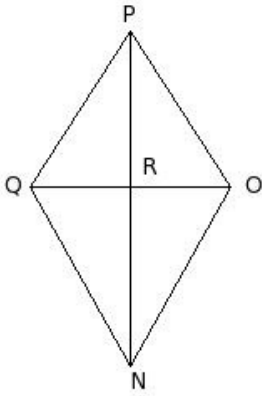


1. Identify the figure below



- (i) quadrilateral (ii) decagon (iii) circle (iv) hexagon (v) pentagon

2. In kite $NO PQ$, \overline{NP} and \overline{OQ} are diagonals. Then $\angle ONR =$

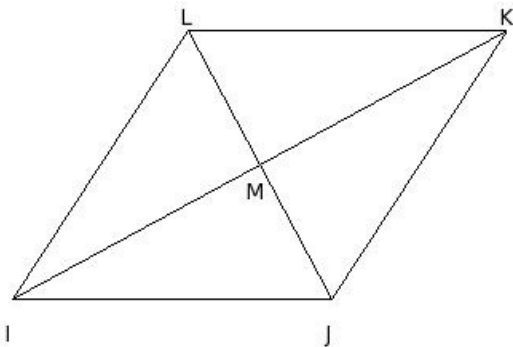


- (i) $\angle QNR$ (ii) $\angle RPO$ (iii) $\angle RPQ$ (iv) $\angle NRQ$ (v) $\angle QRP$

3. The figure formed by successively joining the mid-points of the sides of a rhombus is

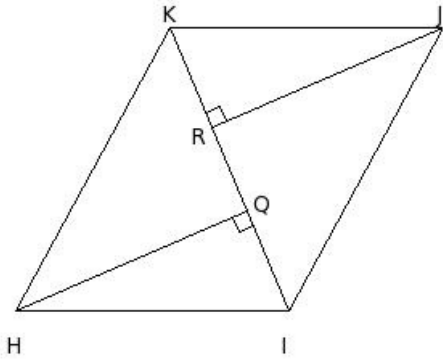
- (i) square (ii) rhombus (iii) parallelogram (iv) rectangle

4. In rhombus $IJKL$, diagonals \overline{IK} and \overline{JL} intersect at M . Then $\angle IJK =$



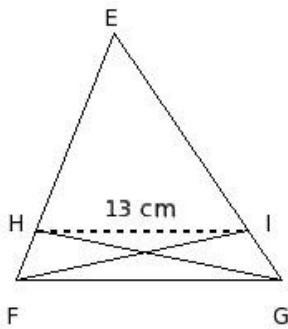
- (i) $\angle LIJ$ (ii) $\angle JKL$ (iii) $\angle IJM$ (iv) $\angle KLI$

5. In the given figure, HIJK is a parallelogram. HQ and JR are perpendicular to the diagonal IK. Given $\angle QHI = 23^\circ$, find $\angle JKI$



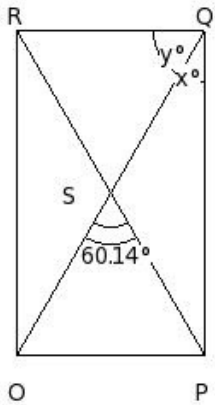
- (i) 66° (ii) 68° (iii) 67° (iv) 69° (v) 65°

6. In the given $\triangle EFG$, $HF = \frac{1}{4} EF$ and $IG = \frac{1}{4} EG$. If $HI = 13$ cm, find FG



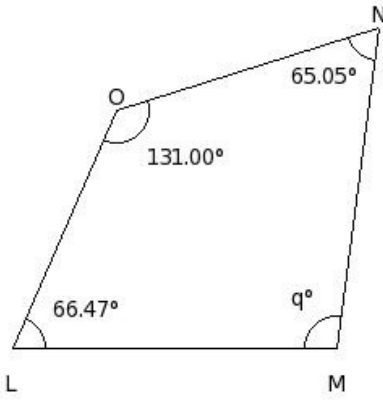
- (i) 19.33 cm (ii) 17.33 cm (iii) 15.33 cm (iv) 18.33 cm (v) 16.33 cm

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



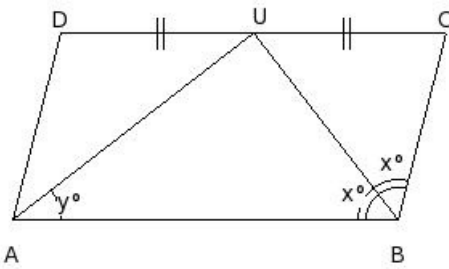
- (i) $x=29.07^\circ, y=58.93^\circ$ (ii) $x=32.07^\circ, y=61.93^\circ$ (iii) $x=28.07^\circ, y=57.93^\circ$ (iv) $x=30.07^\circ, y=59.93^\circ$
 (v) $x=31.07^\circ, y=60.93^\circ$

8. Find the missing angle in the given quadrilateral



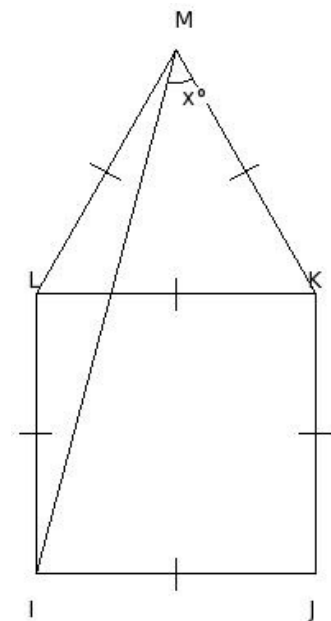
- (i) 102.48° (ii) 127.48° (iii) 107.48° (iv) 97.48° (v) 112.48°

9. In the given figure, ABCD is a parallelogram. U is the mid-point of CD. BU bisects $\angle B$. If $x = 52^\circ$, find angle 'y'.



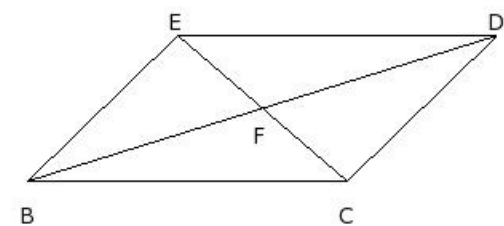
- (i) 40° (ii) 39° (iii) 38° (iv) 37° (v) 36°

10. In the adjoining figure, equilateral $\triangle LKM$ surmounts square IJKL. If $\angle KMI = x^\circ$, find the value of x.



- (i) 43° (ii) 45° (iii) 47° (iv) 46° (v) 44°

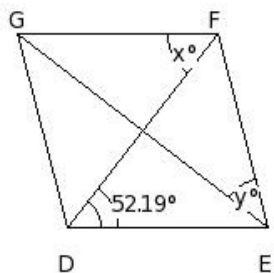
11. In parallelogram BCDE, diagonals \overline{CE} and \overline{BD} intersect at F. Then $\triangle CDE \cong$



- (i) $\triangle BCD$ (ii) $\triangle DEF$ (iii) $\triangle EBC$ (iv) $\triangle BCF$ (v) $\triangle DEB$

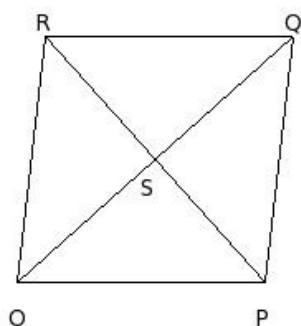
12. The quadrilateral whose diagonals are equal and are perpendicular bisectors is a
 (i) trapezium (ii) rhombus (iii) rectangle (iv) square (v) parallelogram

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



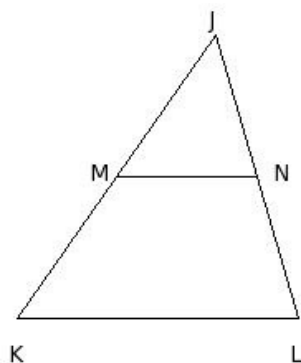
- (i) $x=54.19^\circ, y=39.81^\circ$ (ii) $x=51.19^\circ, y=36.81^\circ$ (iii) $x=52.19^\circ, y=37.81^\circ$ (iv) $x=53.19^\circ, y=38.81^\circ$
 (v) $x=50.19^\circ, y=35.81^\circ$

14. In rhombus OPQR, diagonals \overline{OQ} and \overline{PR} intersect at S. Then $\triangle OPQ \cong$



- (i) $\triangle PQR$ (ii) $\triangle ROP$ (iii) $\triangle SOP$ (iv) $\triangle QRO$

15. In the given figure $\triangle JKL$,
 M is the mid-point of \overline{JK} and $\overline{MN} \parallel \overline{KL}$, then $JN =$

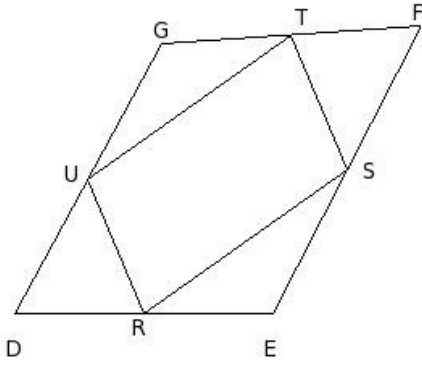


- (i) JK (ii) MK (iii) JM (iv) LJ (v) NL

16. Which of the following is a regular polygon with four sides?

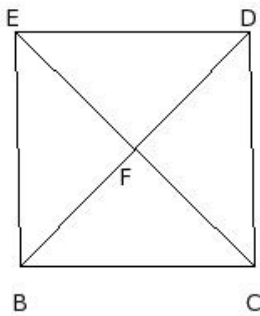
- (i) square (ii) rectangle (iii) parallelogram (iv) rhombus (v) trapezium

17. DEFG is a quadrilateral. R, S, T and U are mid-points of DE, EF, FG and GD respectively. If $DF = 31$ cm and $EG = 18$ cm, find the measure of the sides of RSTU.



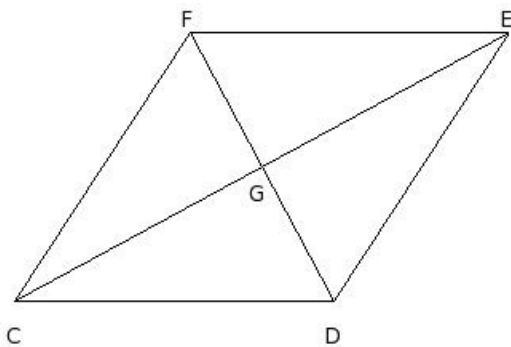
- (i) 18 cm, 9 cm, 18 cm, 9 cm (ii) 15.5 cm, 8 cm, 15.5 cm, 8 cm (iii) 15.5 cm, 9 cm, 15.5 cm, 9 cm
 (iv) 15.5 cm, 7 cm, 15.5 cm, 7 cm (v) 16 cm, 9 cm, 16 cm, 9 cm

18. In rhombus BCDE, diagonals \overline{BD} and \overline{CE} intersect at F. Then $\overline{CD} \parallel$



- (i) \overline{CE} (ii) \overline{EB} (iii) \overline{DE} (iv) \overline{BC}

19. In rhombus CDEF, diagonals \overline{CE} and \overline{DF} intersect at G. Then $\triangle FCD \cong$



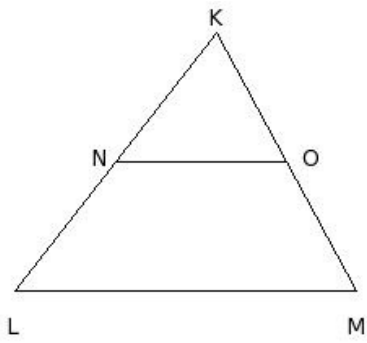
- (i) $\triangle CDE$ (ii) $\triangle EFC$ (iii) $\triangle DEF$ (iv) $\triangle GCD$

20. Which of the following properties apply for a parallelogram ?

- a) Adjacent angles are supplementary
- b) Diagonals are perpendicular to each other
- c) Opposite sides are equal
- d) Diagonals bisect each other
- e) Diagonals are equal to each other
- f) Opposite angles are equal

- (i) {a,c,d,f} (ii) {b,f,a} (iii) {b,e,d} (iv) {b,a} (v) {e,c}

21. In the given figure $\triangle KLM$,
 N is the mid-point of \overline{KL} and $\overline{NO} \parallel \overline{LM}$, then $KN =$

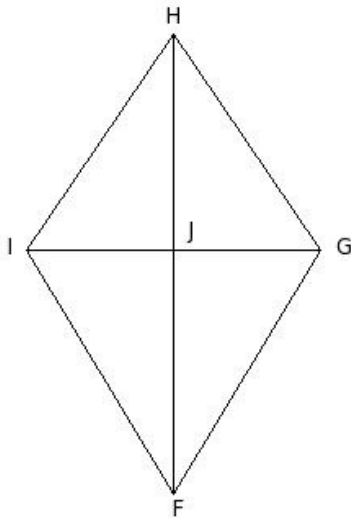


- (i) $\frac{MK}{2}$ (ii) KO (iii) $\frac{KL}{2}$ (iv) $\frac{LM}{2}$ (v) LM

22. The figure formed by successively joining the mid-points of the sides of a parallelogram is
 (i) rectangle (ii) square (iii) parallelogram (iv) rhombus

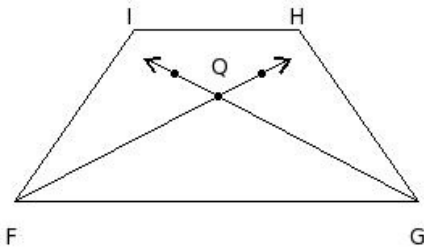
23. The diagonals do not divide the quadrilateral into congruent triangles in which figure?
 (i) rectangle (ii) square (iii) rhombus (iv) trapezium (v) parallelogram

24. In kite $FGHI$, \overline{FH} and \overline{GI} are diagonals. Then $\angle IFJ =$



- (i) $\angle FJI$ (ii) $\angle JHI$ (iii) $\angle JHG$ (iv) $\angle GFJ$ (v) $\angle IJH$

25. $FGHI$ is an isosceles trapezium. FQ and GQ are angular bisector of $\angle F$ & $\angle G$. If $\angle F = 55^\circ$, find $\angle FQG$



- (i) 124° (ii) 125° (iii) 123° (iv) 126° (v) 127°

Assignment Key

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