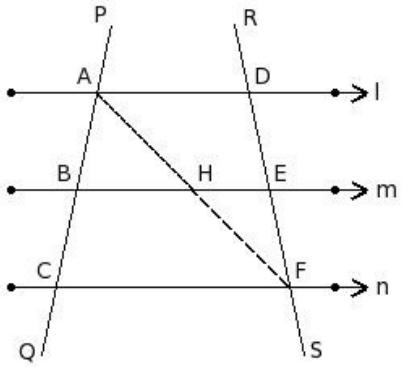
In the given figure, three lines l , m and n are such that l ∥ m ∥ n.

1. Two transversals PQ and RS intersect them at the points A , B , C and D , E , F respectively.

△ABH ~

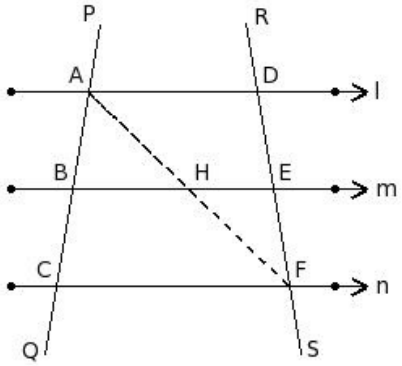


(i) △FEH (ii) △FDA (iii) △DAE (iv) △ACF (v) △DCF

In the given figure, three lines l , m and n are such that l ∥ m ∥ n.

2. Two transversals PQ and RS intersect them at the points A , B , C and D , E , F respectively.

∠FAC =

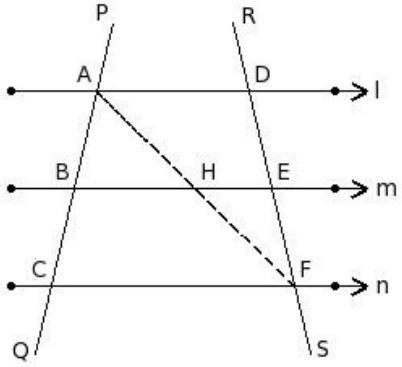


(i) ∠FEH (ii) ∠FDA (iii) ∠HAB (iv) ∠HFE (v) ∠AFD

In the given figure, three lines l , m and n are such that l ∥ m ∥ n.

3. Two transversals PQ and RS intersect them at the points A , B , C and D , E , F respectively.

∠FDA =

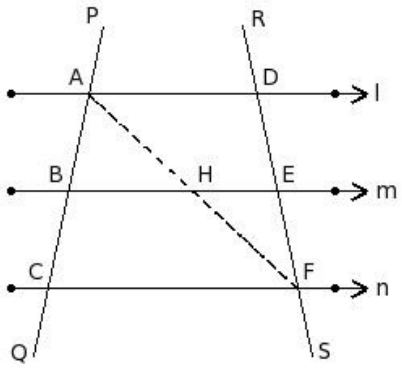


(i) ∠ABH (ii) ∠EHF (iii) ∠FEH (iv) ∠DAF (v) ∠ACF

In the given figure, three lines l , m and n are such that l ∥ m ∥ n.

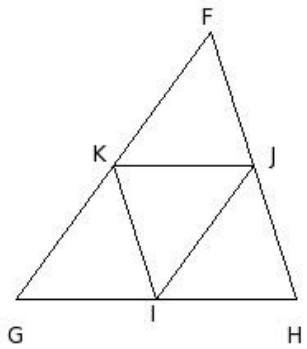
4. Two transversals PQ and RS intersect them at the points A , B , C and D , E , F respectively.

∠CFA =



(i) ∠HFE (ii) ∠DAF (iii) ∠EHF (iv) ∠AFD (v) ∠BHA

5. In the given figure, the area of the △FGH is x sq.cm. I,J,K are the mid-points of the sides GH , HF and FG respectively. The area of the △IJK is



(i) $\frac{2}{3}$ of area of △FGH (ii) $\frac{1}{3}$ of area of △FGH (iii) $\frac{1}{4}$ of area of △FGH (iv) $\frac{3}{4}$ of area of △FGH

(v) $\frac{1}{2}$ of area of △FGH

6. In the given figure, points M , N and O are the mid-points of sides KL, LJ and JK of △JKL. Which of the following are true?

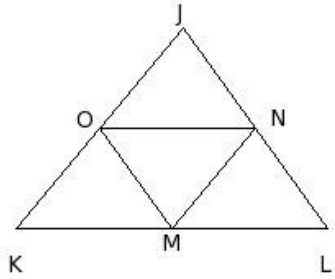
a) Area of trapezium KLNO is $\frac{1}{4}$ the area of △JKL

b) Area of △JKL = $\frac{1}{3}$ area of △MNO

c) Area of △JKL = 4 times area of △MNO

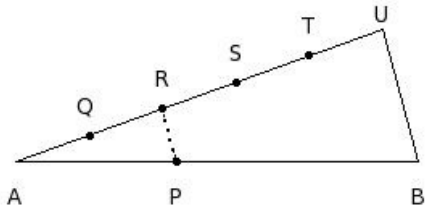
d) All four small triangles have equal areas

e) Area of trapezium KLNO is thrice the area of △JON



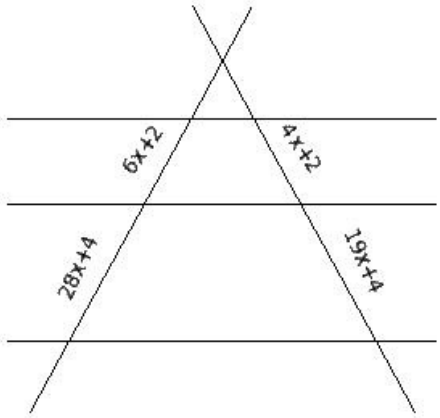
(i) {c,d,e} (ii) {b,d} (iii) {a,b,e} (iv) {a,c,d} (v) {a,c}

7. In the given figure, if A, Q, R, S, T, U are equidistant and RP ∥ UB and AB = 25 cm. Find AP



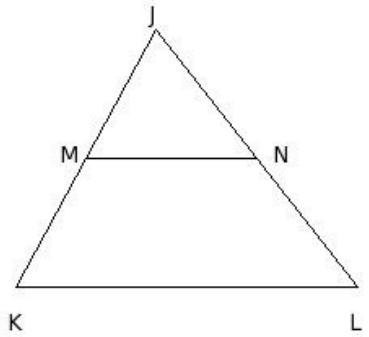
(i) 8.00 cm (ii) 9.00 cm (iii) 11.00 cm (iv) 12.00 cm (v) 10.00 cm

8. From the given figure and values, find x



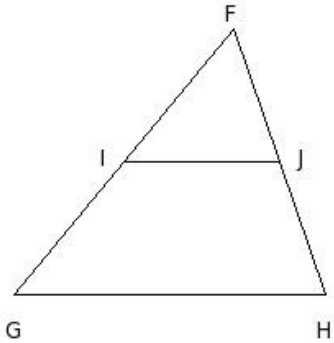
(i) (2,7) (ii) (7,0) (iii) (5,-1) (iv) (6,1) (v) (5,0)

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



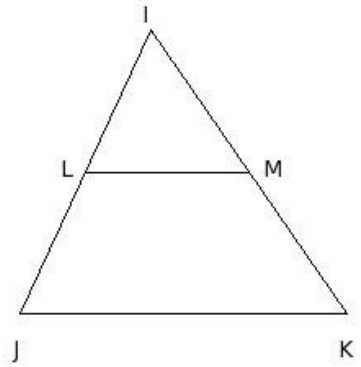
(i) $\frac{JK}{2}$ (ii) $\frac{KL}{2}$ (iii) KL (iv) JM (v) $\frac{LJ}{2}$

10. In the given figure △FGH,
I is the mid-point of $\overline{FG}$ and $\overline{IJ} \parallel \overline{GH}$, then FI =



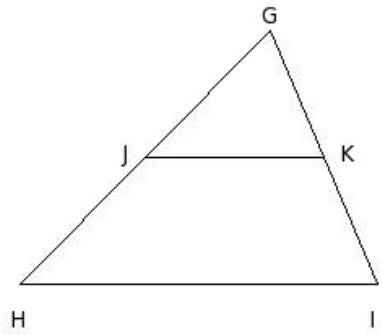
(i) $\frac{HF}{2}$ (ii) $\frac{GH}{2}$ (iii) GH (iv) $\frac{FG}{2}$ (v) FJ

11. In the given figure $\triangle IJK$,
L is the mid-point of $\overline{IJ}$ and $\overline{LM} \parallel \overline{JK}$, then IL =



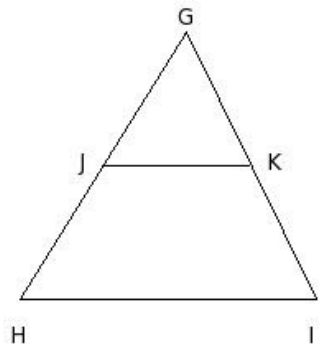
(i) LJ (ii) IM (iii) KI (iv) IJ (v) MK

12. In the given figure $\triangle GHI$,
J is the mid-point of $\overline{GH}$ and $\overline{JK} \parallel \overline{HI}$, then JH =



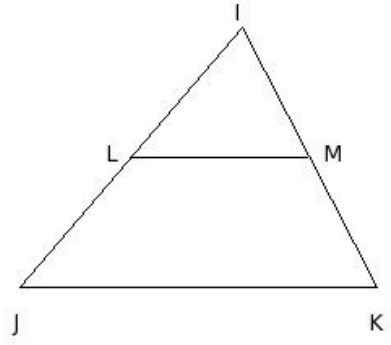
(i) GK (ii) GH (iii) KI (iv) IG (v) GJ

13. In the given figure $\triangle GHI$,
J is the mid-point of $\overline{GH}$ and $\overline{JK} \parallel \overline{HI}$, then GK =



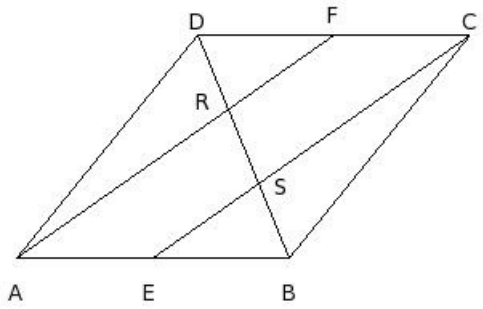
(i) GJ (ii) JH (iii) GH (iv) KI (v) IG

14. In the given figure $\triangle IJK$,
L is the mid-point of $\overline{IJ}$ and $\overline{LM} \parallel \overline{JK}$, then MK =



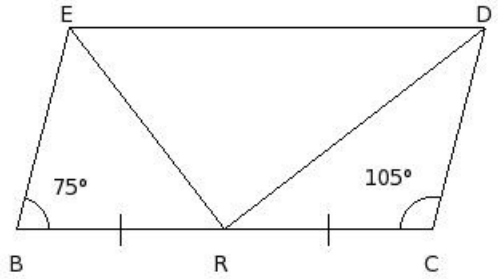
(i) IJ (ii) IL (iii) LJ (iv) KI (v) IM

15. In the given figure, ABCD is a parallelogram such that E and F are mid-points of sides AB & CD. AF meets BD at R and CE meets BD at S. Given BD = 15 cm, find BS



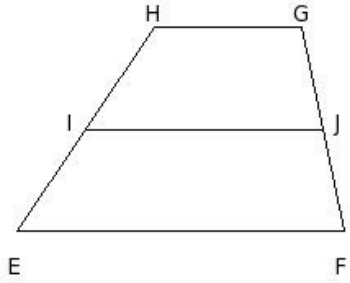
(i) 7.00 cm (ii) 3.00 cm (iii) 4.00 cm (iv) 5.00 cm (v) 6.00 cm

16. In the given figure, BCDE is a parallelogram such that R is the mid-point of BC and BC = 2EB. Find ∠ERD



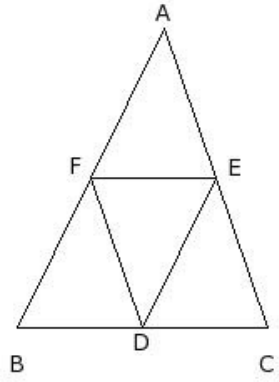
(i) 89° (ii) 91° (iii) 90° (iv) 92° (v) 88°

17. In the given figure, EFGH is a trapezium. I and J are mid-points of EH and FG.Given IJ = 14.5 cm and EF = 20 cm, find GH



(i) 10.0 cm (ii) 11.0 cm (iii) 7.0 cm (iv) 8.0 cm (v) 9.0 cm

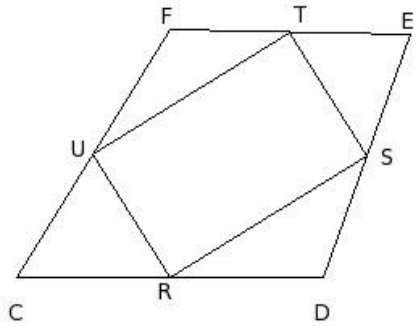
18. In the given figure, △ABC is a triangle. D, E & F are mid-points of BC, CA & AB respectively. Given DE = 10 cm, EF = 8 cm & FD = 10 cm, find the sides of the triangle.



(i) 20 cm, 15 cm & 20 cm (ii) 20 cm, 16 cm & 22 cm (iii) 20 cm, 16 cm & 20 cm (iv) 17 cm, 16 cm & 20 cm

(v) 21 cm, 16 cm & 20 cm

19. CDEF is a quadrilateral. R, S, T and U are mid-points of CD, DE, EF and FC respectively.If CE = 29 cm and DF = 18 cm, find the measure of the sides of RSTU.



(i) 14.5 cm, 6 cm, 14.5 cm, 6 cm (ii) 14.5 cm, 8 cm, 14.5 cm, 8 cm (iii) 14.5 cm, 9 cm, 14.5 cm, 9 cm

(iv) 16 cm, 9 cm, 16 cm, 9 cm (v) 15 cm, 9 cm, 15 cm, 9 cm

Assignment Key

1) (iv)	2) (iii)	3) (iii)	4) (v)	5) (iii)	6) (i)
7) (v)	8) (v)	9) (v)	10) (iv)	11) (i)	12) (v)
13) (iv)	14) (v)	15) (iv)	16) (iii)	17) (v)	18) (iii)
19) (iii)					