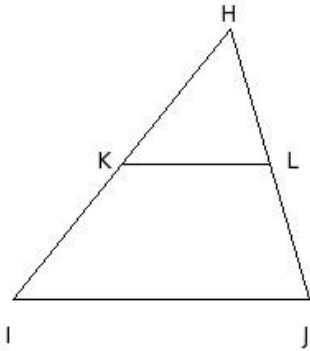


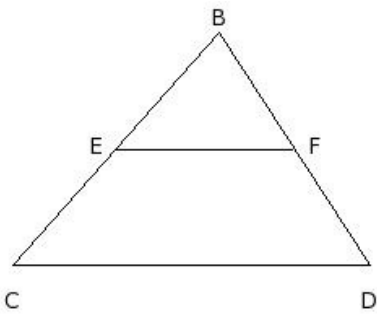


1. In the given figure  $\triangle HIJ$ ,  
K is the mid-point of  $\overline{HI}$  and  $\overline{KL} \parallel \overline{IJ}$ , then  $HL =$



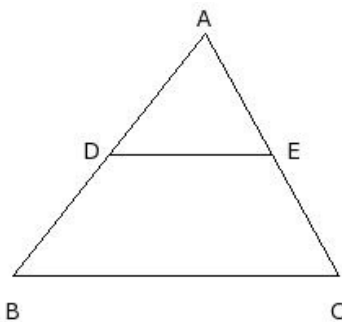
- (i)  $\frac{HI}{2}$  (ii)  $IJ$  (iii)  $\frac{IJ}{2}$  (iv)  $HK$  (v)  $\frac{JH}{2}$

2. In the given figure  $\triangle BCD$ ,  
E is the mid-point of  $\overline{BC}$  and  $\overline{EF} \parallel \overline{CD}$ , then  $BE =$



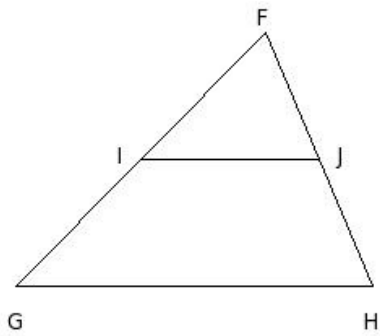
- (i)  $BF$  (ii)  $\frac{DB}{2}$  (iii)  $CD$  (iv)  $\frac{CD}{2}$  (v)  $\frac{BC}{2}$

3. In the given figure  $\triangle ABC$ ,  
D is the mid-point of  $\overline{AB}$  and  $\overline{DE} \parallel \overline{BC}$ , then  $AD =$



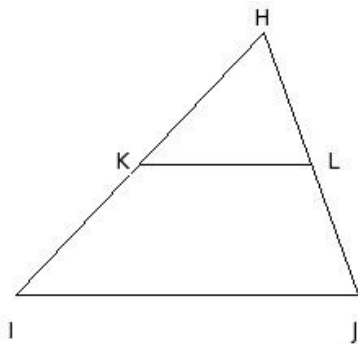
- (i)  $DB$  (ii)  $AE$  (iii)  $AB$  (iv)  $CA$  (v)  $EC$

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



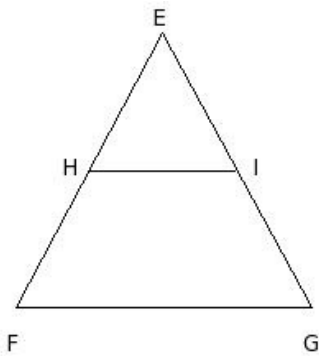
- (i) FJ (ii) FI (iii) FG (iv) HF (v) JH

5. In the given figure  $\triangle HIJ$ ,  
K is the mid-point of  $\overline{HI}$  and  $\overline{KL} \parallel \overline{IJ}$ , then  $HL =$



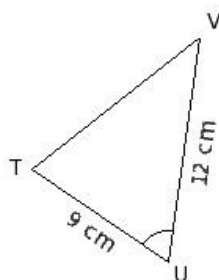
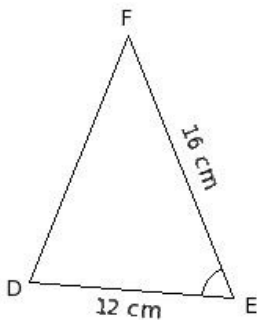
- (i) JH (ii) HK (iii) LJ (iv) HI (v) KI

6. In the given figure  $\triangle EFG$ ,  
H is the mid-point of  $\overline{EF}$  and  $\overline{HI} \parallel \overline{FG}$ , then  $IG =$



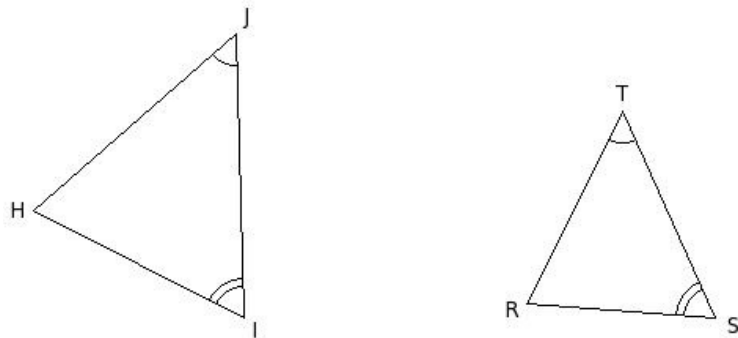
- (i) GE (ii) EI (iii) EF (iv) HF (v) EH

7. Identify the property by which the two given triangles are similar



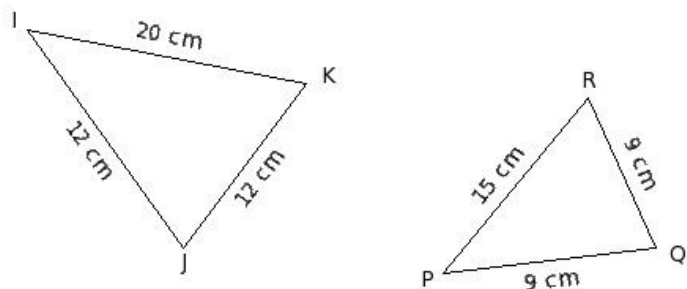
- (i) AAA Similarity (ii) SSS Similarity (iii) not similar (iv) SAS Similarity

8. Identify the property by which the two given triangles are similar



(i) not similar (ii) SSS Similarity (iii) SAS Similarity (iv) AAA Similarity

9. Identify the property by which the two given triangles are similar

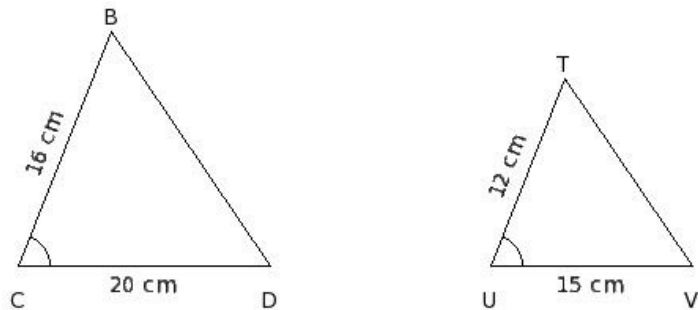


(i) AAA Similarity (ii) SAS Similarity (iii) SSS Similarity (iv) not similar

In the given figure,  $\triangle BCD$  and  $\triangle TUV$  are such that

10.  $\angle C = \angle U$  and  $\frac{BC}{TU} = \frac{CD}{UV}$ .

Identify the property by which the two triangles are similar

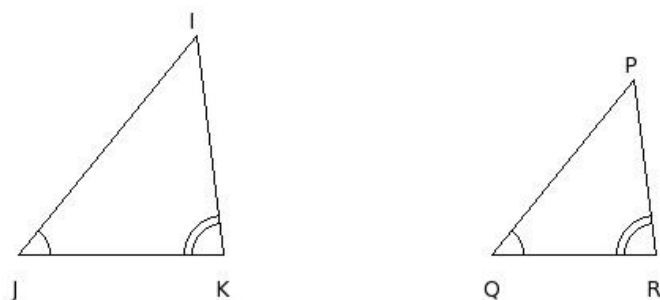


(i) not similar (ii) SAS Similarity (iii) AAA Similarity (iv) SSS Similarity

In the given figure,  $\triangle IJK$  and  $\triangle PQR$  are such that

11.  $\angle J = \angle Q$  and  $\angle K = \angle R$ .

Identify the property by which the two triangles are similar

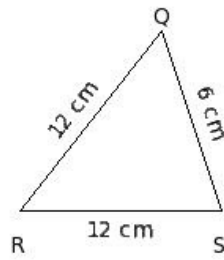
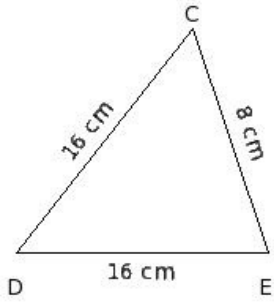


(i) SAS Similarity (ii) not similar (iii) AAA Similarity (iv) SSS Similarity

In the given figure,  $\triangle CDE$  and  $\triangle QRS$  are such that

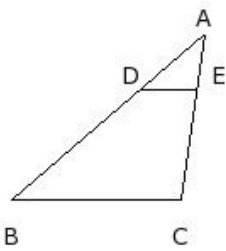
12.  $\frac{CD}{QR} = \frac{DE}{RS} = \frac{EC}{SQ}$ .

Identify the property by which the two triangles are similar



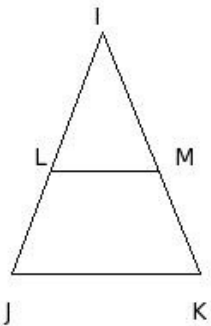
- (i) SSS Similarity (ii) AAA Similarity (iii) not similar (iv) SAS Similarity

13. In the given figure,  $DE \parallel BC$ . If  $\frac{AD}{DB} = \frac{1}{2}$  and  $AC = 10.2$  cm, find  $AE$



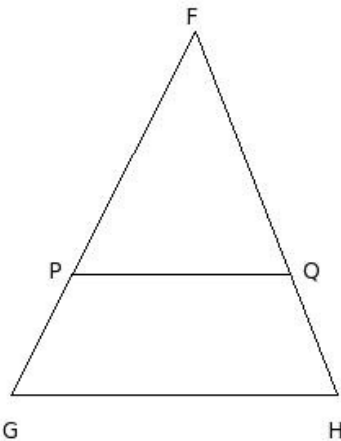
- (i) 3.40 cm (ii) 2.40 cm (iii) 4.40 cm (iv) 1.40 cm (v) 5.40 cm

14. In the given figure,  $LM \parallel JK$ .  
If  $IL = 8.8$  cm,  $IJ = 15.4$  cm and  $IK = 15.6$  cm, find  $IM$



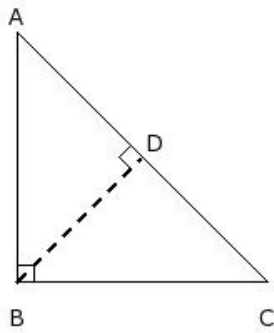
- (i) 9.91 cm (ii) 6.91 cm (iii) 8.91 cm (iv) 7.91 cm (v) 10.91 cm

15. In the given figure,  $PQ \parallel GH$  and  $FP = 15$  cm,  $FG = 25$  cm and  $PQ = 12$  cm, find  $GH$



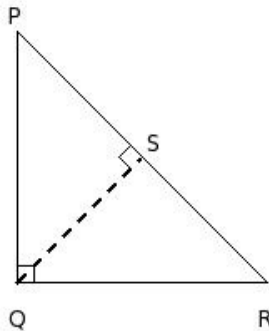
- (i) 20.0 cm (ii) 18.0 cm (iii) 19.0 cm (iv) 21.0 cm (v) 22.0 cm

16. In the given figure,  $\triangle ABC$  is isosceles right-angled at B and  $BD \perp CA$ .  $\angle D =$



- (i)  $\angle E$  (ii)  $\angle C$  (iii)  $\angle B$  (iv)  $\angle F$  (v)  $\angle A$

17. In the given figure,  $\triangle PQR$  is isosceles right-angled at Q and  $QS \perp RP$ .  $\angle PQS \neq$

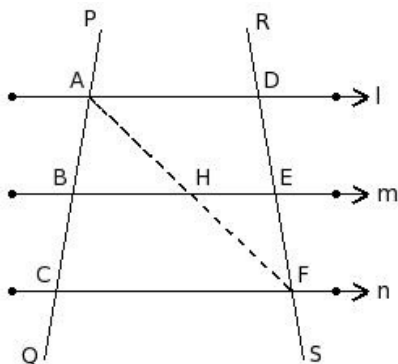


- (i)  $\angle RPQ$  (ii)  $\angle RSQ$  (iii)  $\angle SPQ$  (iv)  $\angle QRS$  (v)  $\angle SQR$

In the given figure, three lines  $l$ ,  $m$  and  $n$  are such that  $l \parallel m \parallel n$ .

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

$\triangle ABH \sim$

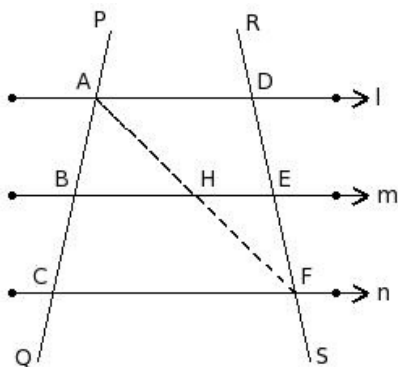


- (i)  $\triangle FEH$  (ii)  $\triangle ACF$  (iii)  $\triangle FDA$  (iv)  $\triangle DCF$  (v)  $\triangle DAE$

In the given figure, three lines  $l$ ,  $m$  and  $n$  are such that  $l \parallel m \parallel n$ .

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

$\angle AFD =$

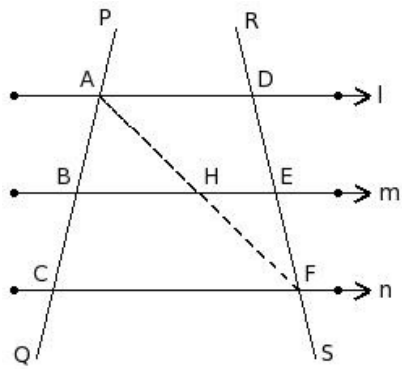


- (i)  $\angle FAC$  (ii)  $\angle FEH$  (iii)  $\angle HFE$  (iv)  $\angle FDA$  (v)  $\angle HAB$

In the given figure, three lines  $l$ ,  $m$  and  $n$  are such that  $l \parallel m \parallel n$ .

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

$\angle ABH =$

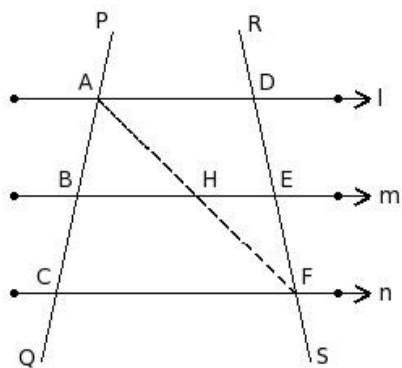


- (i)  $\angle EHF$  (ii)  $\angle DAF$  (iii)  $\angle FDA$  (iv)  $\angle FEH$  (v)  $\angle ACF$

In the given figure, three lines  $l$ ,  $m$  and  $n$  are such that  $l \parallel m \parallel n$ .

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

$\angle BHA =$

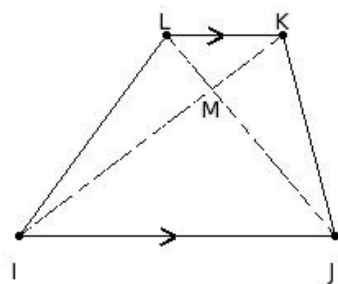


- (i)  $\angle DAF$  (ii)  $\angle EHF$  (iii)  $\angle AFD$  (iv)  $\angle HFE$  (v)  $\angle CFA$

In the given figure,  $IJKL$  is a trapezium in which

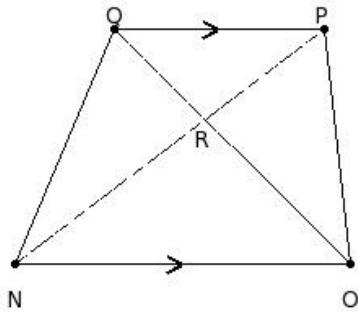
$IJ \parallel KL$  and the diagonals  $JK$  and  $IL$  intersect at  $M$ .

22. If  $MI = (4x + 6)$  cm,  $JM = (5x + 6)$  cm,  $MK = (2x + 16)$  cm and  $LM = (3x + 10)$  cm, find the value of  $x$



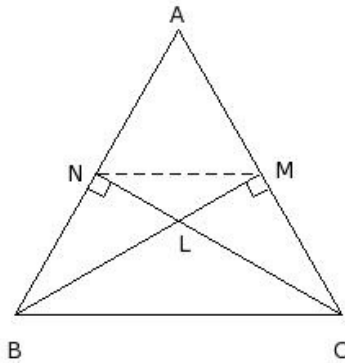
- (i)  $(-1, 18)$  (ii)  $(20, 1)$  (iii)  $(2, 18)$  (iv)  $(0, 19)$  (v)  $(-1, 17)$

23. In the given figure, NOPQ is a trapezium in which  $NO \parallel PQ$  and the diagonals OQ and NP intersect at R.  $\triangle RPQ \sim$



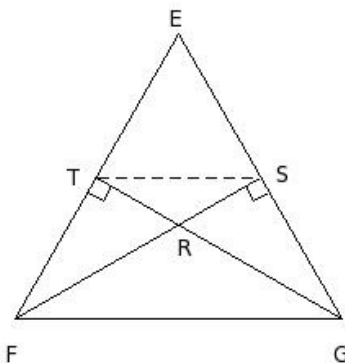
- (i)  $\triangle QNO$  (ii)  $\triangle RNO$  (iii)  $\triangle ROP$  (iv)  $\triangle OPQ$  (v)  $\triangle RQN$

24. In the given figure, the altitudes MB and CN of  $\triangle ABC$  meet at L.  $\triangle NBL \sim$



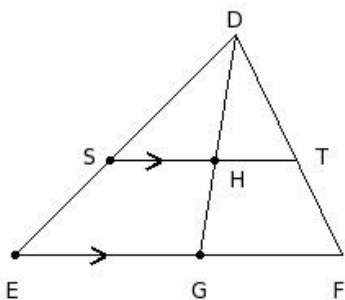
- (i)  $\triangle MCL$  (ii)  $\triangle LBC$  (iii)  $\triangle NBC$  (iv)  $\triangle MCB$  (v)  $\triangle LNM$

25. In the given figure, the altitudes SF and GT of  $\triangle EFG$  meet at R.  $\angle GRF =$



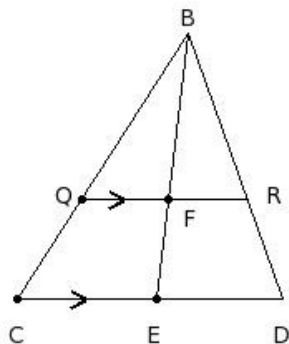
- (i)  $\angle TRS$  (ii)  $\angle FGR$  (iii)  $\angle RFG$  (iv)  $\angle RST$  (v)  $\angle STR$

26. In the given figure,  $ST \parallel EF$ , and median DG bisects ST. If  $DE = 19$  cm,  $DG = 19.1$  cm and  $DS = 10.86$  cm,  $SE =$



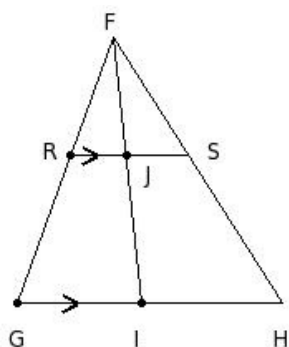
- (i) 8.14 cm (ii) 7.14 cm (iii) 9.14 cm (iv) 10.14 cm (v) 6.14 cm

27. In the given figure,  $QR \parallel CD$ , and median  $BE$  bisects  $QR$ .  
If  $BE = 16.1$  cm,  $BD = 17$  cm and  $BF = 10.06$  cm,  $FE =$



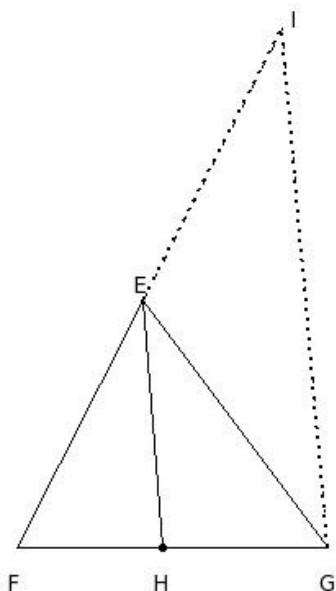
- (i) 4.04 cm (ii) 8.04 cm (iii) 6.04 cm (iv) 5.04 cm (v) 7.04 cm

28. In the given figure,  $RS \parallel GH$ , and median  $FI$  bisects  $RS$ .  $\triangle FIH \sim$



- (i)  $\triangle GHF$  (ii)  $\triangle FJS$  (iii)  $\triangle FGH$  (iv)  $\triangle FGI$  (v)  $\triangle FRJ$

29. In the given figure,  $\triangle EFG$  is a triangle in which  $EH$  is the internal bisector of  $\angle E$  and  $GI \parallel HE$  meeting  $FE$  produced at  $I$ .  $\angle HEF =$

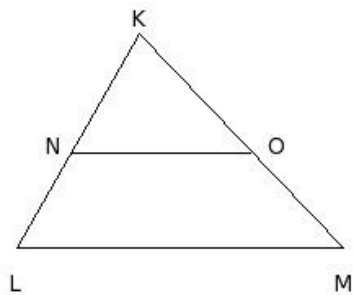


- (i)  $\angle EGI$  (ii)  $\angle HGE$  (iii)  $\angle FHE$  (iv)  $\angle EHG$  (v)  $\angle IEG$



30. In the given figure, N and O are points on the sides KL and KM respectively of  $\triangle KLM$ . For which of the following cases,  $NO \parallel LM$

- a)  $KL = 15$  cm,  $KN = 10.33$  cm,  $KM = 18$  cm and  $OM = 8$  cm
- b)  $KL = 15$  cm,  $NL = 6.67$  cm,  $KO = 12$  cm and  $KM = 18$  cm
- c)  $KL = 15$  cm,  $NL = 6.67$  cm,  $KM = 18$  cm and  $KO = 10$  cm
- d)  $KN = 8.33$  cm,  $NL = 6.67$  cm,  $KO = 10$  cm and  $OM = 8$  cm



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

31. Which of the following are true?

- a) Any two triangles are congruent.
- b) Any two circles are similar.
- c) Any two circles are congruent.
- d) Any two triangles are similar.
- e) Any two squares are similar.
- f) Any two squares are congruent.

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

32. Which of the following are true?

- a) A square is a polygonal region.
- b) A sector is a polygonal region.
- c) A circle is a polygonal region.
- d) A triangle is a polygonal region.
- e) A semi-circle is a polygonal region.

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

33. Which of the following are true?

- a) Similar and congruent are not synonymous.
- b) Congruent figures have same area.
- c) Similar figures have same area.
- d) If two figures are similar, then they are congruent too.
- e) If two figures are congruent, then they are similar too.

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

34. Which of the following are true?

- a) Area of the union of two polygonal region is the sum of the individual area.
- b) A polygonal region can be divided into a finite number of triangles in a unique way.
- c) Area of a convex polygonal region is equal to the sum of the areas of all triangles formed by joining the vertices of the polygon with an interior point.
- d) Area of the union of two polygonal region is not equal to the sum of the individual area.

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

35. Which of the following are necessary conditions for similarity of two polygons ?

- a) The corresponding sides are equal.
- b) The corresponding angles are proportional.
- c) The corresponding angles are equal.
- d) The corresponding sides are proportional.

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

36. Which of the following are true?

- a) Similarity is anti symmetric.
- b) Similarity is transitive.
- c) Similarity is symmetric.
- d) Similarity is reflexive.

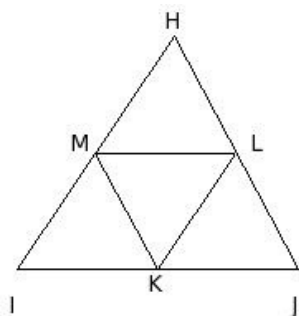
(i) {a,d} (ii) {a,b} (iii) {a,c} (iv) {b,c,d} (v) {a,b,c}

37. Which of the following are true?

- a) Any two triangles are similar if the corresponding angles are equal.
- b) Any two quadrilaterals are similar if the corresponding angles are equal.
- c) Any two quadrilaterals are similar if the corresponding sides are proportional.
- d) Any two triangles are similar if the corresponding sides are proportional.

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

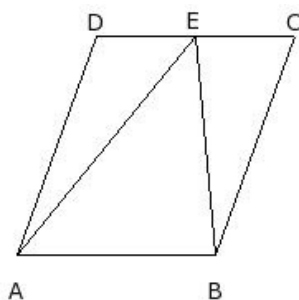
38. In the given figure, the area of the  $\triangle HIJ$  is x sq.cm. K,L,M are the mid-points of the sides IJ , JH and HI respectively. The area of the  $\triangle KLM$  is



(i)  $\frac{1}{2}$  of area of  $\triangle HIJ$  (ii)  $\frac{1}{4}$  of area of  $\triangle HIJ$  (iii)  $\frac{3}{4}$  of area of  $\triangle HIJ$  (iv)  $\frac{2}{3}$  of area of  $\triangle HIJ$  (v)  $\frac{1}{3}$  of area of  $\triangle HIJ$

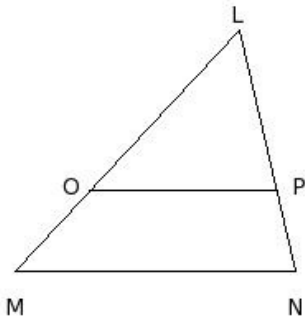
39. In the given figure, the parallelogram ABCD and the triangle  $\triangle EAB$  are on the same bases and between the same parallels.

The area of the  $\triangle EAB$  is x sq.cm. The area of the parallelogram is



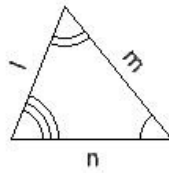
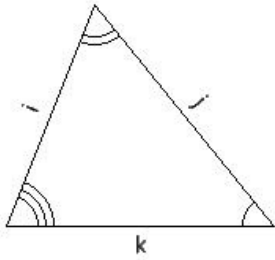
(i) twice the area of the triangle (ii)  $\frac{4}{3}$  the area of the triangle (iii)  $\frac{3}{2}$  the area of the triangle  
(iv) thrice the area of the triangle (v)  $\frac{5}{4}$  the area of the triangle

40. In the given  $\triangle LMN$ ,  $OP \parallel MN$ . If  $LO : OM = 13.33 \text{ cm} : 6.67 \text{ cm}$  and  $LN = 15 \text{ cm}$ ,  $PN =$



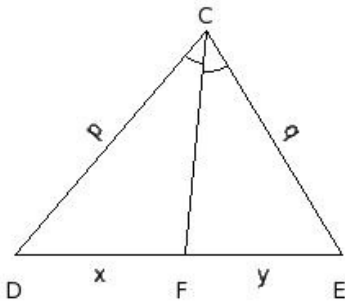
- (i) 6.00 cm (ii) 5.00 cm (iii) 4.00 cm (iv) 3.00 cm (v) 7.00 cm

41. In the given two similar triangles, if  $i = 15 \text{ cm}$ ,  $j = 18 \text{ cm}$ ,  $k = 17 \text{ cm}$ ,  $m = 10.8 \text{ cm}$ , find  $n$



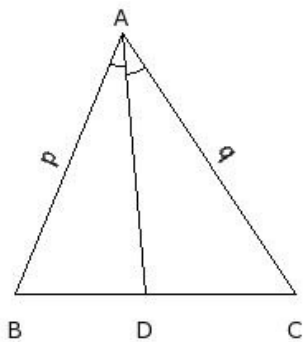
- (i) 11.20 cm (ii) 12.20 cm (iii) 10.20 cm (iv) 9.20 cm (v) 8.20 cm

42. In the given figure, given  $\angle FCD = \angle ECF$ ,  $x : y = 10.59 \text{ cm} : 9.41 \text{ cm}$  and  $q = 16 \text{ cm}$ , find  $p =$



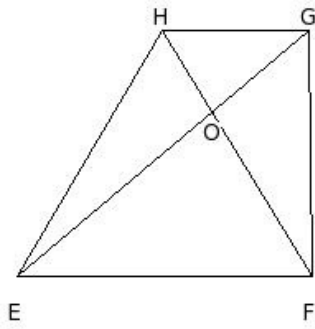
- (i) 18.00 cm (ii) 19.00 cm (iii) 17.00 cm (iv) 20.00 cm (v) 16.00 cm

43. In the given figure, given  $\angle DAB = \angle CAD$ ,  $p = 8.03 \text{ cm}$ ,  $q = 8.97 \text{ cm}$  and  $BC = 17 \text{ cm}$ , find  $DC =$



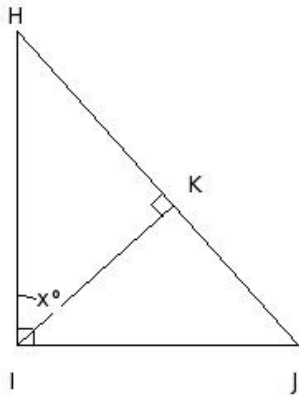
- (i) 8.97 cm (ii) 10.97 cm (iii) 6.97 cm (iv) 9.97 cm (v) 7.97 cm

44. In the given figure, EFGH is a trapezium where  $OE = 13$  cm ,  $OF = 13$  cm and  $OG = 4$  cm . Find  $OH =$



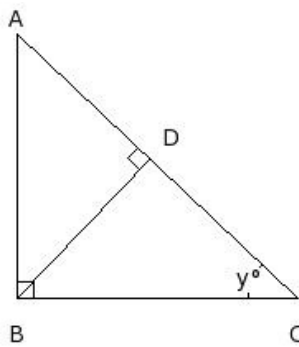
- (i) 5 cm (ii) 6 cm (iii) 3 cm (iv) 2 cm (v) 4 cm

45. In the given figure,  $\angle KHI = 42.14^\circ$ , find the value of  $x =$



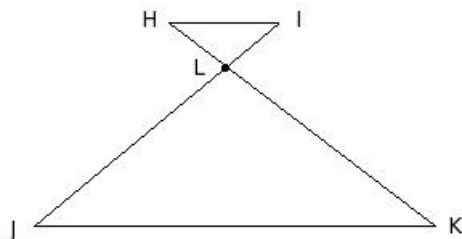
- (i)  $48.86^\circ$  (ii)  $49.86^\circ$  (iii)  $45.86^\circ$  (iv)  $47.86^\circ$  (v)  $46.86^\circ$

46. In the given figure,  $\angle DBC = 46.38^\circ$ , find the value of  $y =$



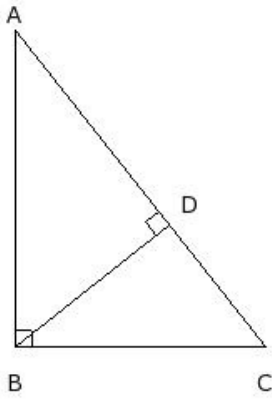
- (i)  $43.62^\circ$  (ii)  $41.62^\circ$  (iii)  $42.62^\circ$  (iv)  $44.62^\circ$  (v)  $45.62^\circ$

47. In the given figure, if  $HI \parallel JK$  then



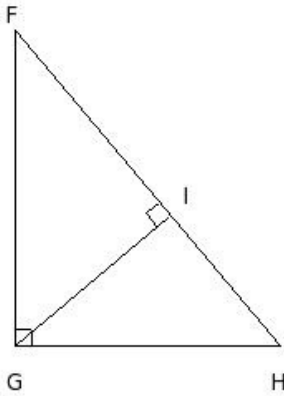
- (i)  $\triangle LHI \sim \triangle LJK$  (ii)  $\triangle HIL \sim \triangle LKJ$  (iii)  $\triangle HIL \sim \triangle LJK$  (iv)  $\triangle HIL \sim \triangle KJL$  (v)  $\triangle LIH \sim \triangle LKJ$

48. In the given figure,  $\triangle ABC$  is right-angled at B. Also,  $BD \perp AC$ . If  $BC = 15$  cm,  $BD = 11.77$  cm, then find AB.



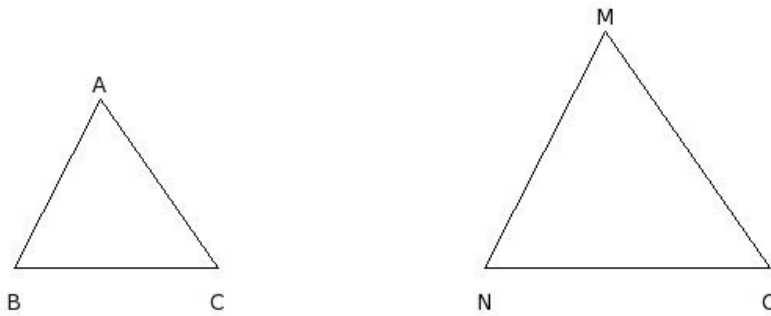
- (i) 19.00 cm (ii) 21.00 cm (iii) 17.00 cm (iv) 20.00 cm (v) 18.00 cm

49. In the given figure,  $\triangle FGH$  is right-angled at G. Also,  $GI \perp FH$ . If  $IH = 10.3$  cm,  $GI = 12.26$  cm, then find FI.



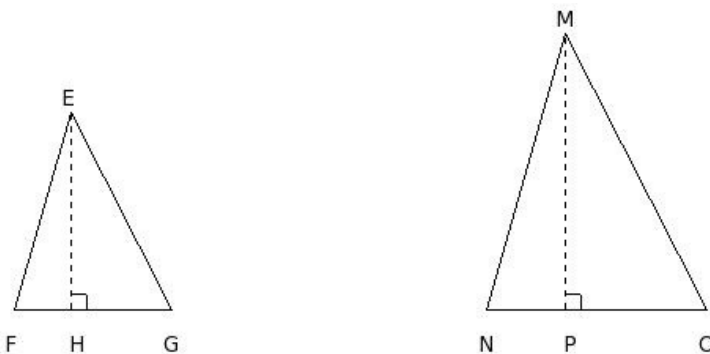
- (i) 13.60 cm (ii) 12.60 cm (iii) 15.60 cm (iv) 16.60 cm (v) 14.60 cm

50. In the given figure,  $\triangle ABC \sim \triangle MNO$  and  $AB = 12$  cm,  $MN = 16.8$  cm.  
If the area of the  $\triangle ABC = 69.2$  sq.cm, find the area of the  $\triangle MNO$



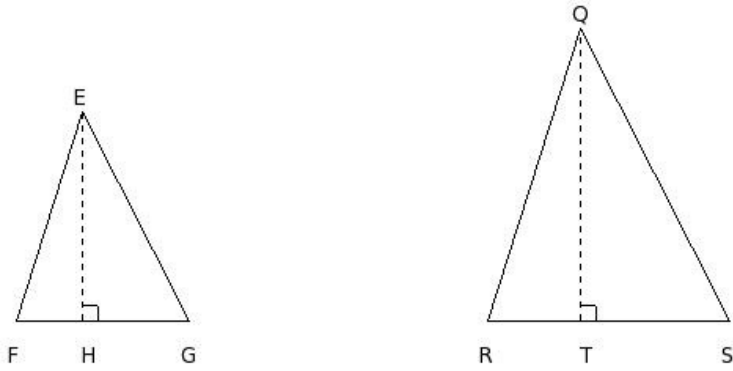
- (i) 136.62 sq.cm (ii) 134.62 sq.cm (iii) 137.62 sq.cm (iv) 135.62 sq.cm (v) 133.62 sq.cm

51. In the given figure,  $\triangle EFG \sim \triangle MNO$  and  $FG = 10$  cm,  $NO = 14$  cm and  $MP = 17.47$  cm, find the area of the  $\triangle EFG$



- (i) 63.39 sq.cm (ii) 60.39 sq.cm (iii) 62.39 sq.cm (iv) 64.39 sq.cm (v) 61.39 sq.cm

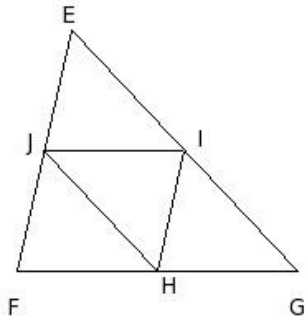
52. In the given figure,  $\triangle EFG$  &  $\triangle QRS$  are similar triangles. If the ratio of the heights  $EH : QT = 13 : 19$ , then the ratio of their areas is



- (i) 168sq.cm:361sq.cm (ii) 169sq.cm:364sq.cm (iii) 170sq.cm:361sq.cm (iv) 169sq.cm:359sq.cm  
(v) 169sq.cm:361sq.cm

53. In the given figure, points H, I and J are the mid-points of sides FG, GE and EF of  $\triangle EFG$ . Which of the following are true?

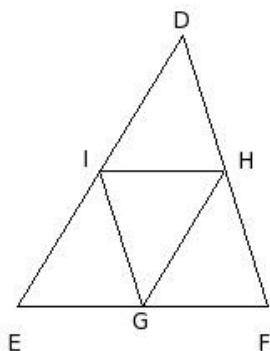
- a) All four small triangles have equal areas  
b) Area of  $\triangle EFG = 4$  times area of  $\triangle HIJ$   
c) Area of  $\triangle EFG = \frac{1}{3}$  area of  $\triangle HIJ$   
d) Area of trapezium FG IJ is  $\frac{1}{4}$  the area of  $\triangle EFG$   
e) Area of trapezium FG IJ is thrice the area of  $\triangle EJI$



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

54. In the given figure, points G, H and I are the mid-points of sides EF, FD and DE of  $\triangle DEF$ . Which of the following are true?

- a)  $\triangle GIH \sim \triangle DEF$
- b)  $\triangle HGF \sim \triangle DEF$
- c)  $\triangle DIH \sim \triangle DEF$
- d)  $\triangle GHI \sim \triangle DEF$
- e)  $\triangle IEG \sim \triangle DEF$

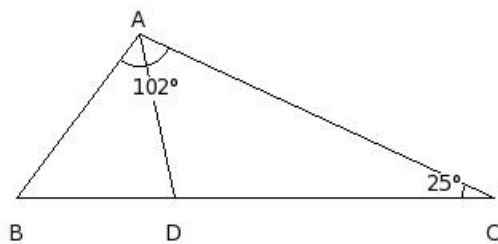


- (i) {b,c,d,e} (ii) {a,c} (iii) {a,e,b} (iv) {a,d} (v) {a,b}

55. The perimeters of two similar triangles are 27 cm and 20 cm respectively. If one side of the first triangle is 16 cm, find the length of the corresponding side of the second triangle.

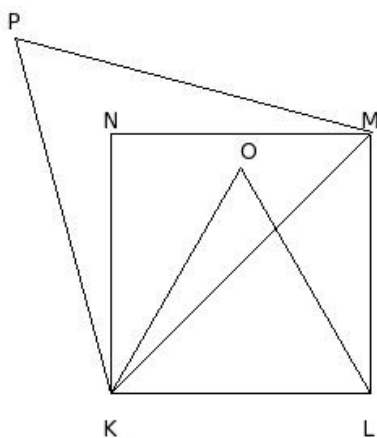
- (i) 13.85 cm (ii) 10.85 cm (iii) 9.85 cm (iv) 12.85 cm (v) 11.85 cm

56. In the given figure, D is a point on side BC of  $\triangle ABC$  such that  $\angle CAB = \angle ADC = 102^\circ$ ,  $\angle DCA = 25^\circ$ . Find  $\angle CAD$



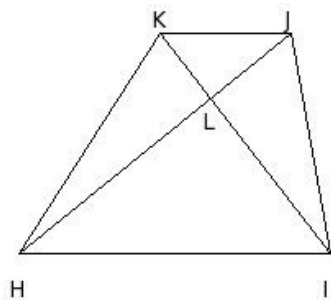
- (i)  $53^\circ$  (ii)  $54^\circ$  (iii)  $51^\circ$  (iv)  $52^\circ$  (v)  $55^\circ$

57. KLMN is a square and  $\triangle KLO$  is an equilateral triangle. Also,  $\triangle KMP$  is an equilateral triangle. If area of  $\triangle KLO$  is 'a' sq.units, then the area of  $\triangle KMP$  is



- (i)  $2a$  sq.units (ii)  $\frac{1}{2}a$  sq.units (iii)  $\frac{1}{2}\sqrt{3}a$  sq.units (iv)  $a^2$  sq.units (v)  $\sqrt{3}a$  sq.units

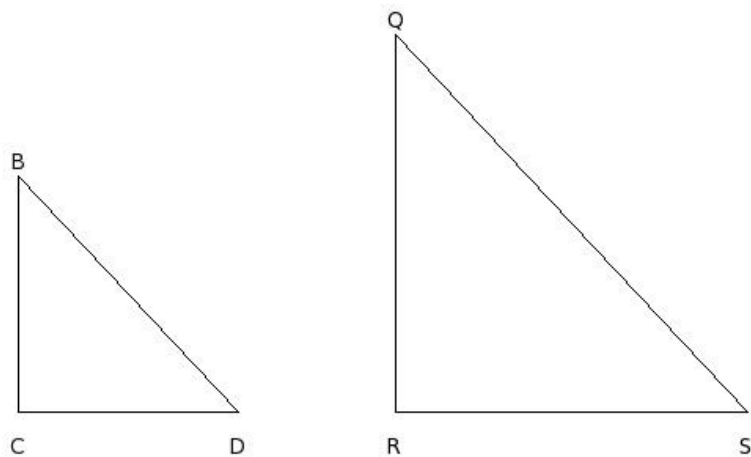
58. HIJK is a cyclic trapezium. Diagonals IK and HJ intersect at L. If KH = 16 cm, find IJ



- (i) 17 cm (ii) 15 cm (iii) 14 cm (iv) 16 cm (v) 18 cm

A vertical stick 15 m long casts a shadow of 14 m long on the ground.

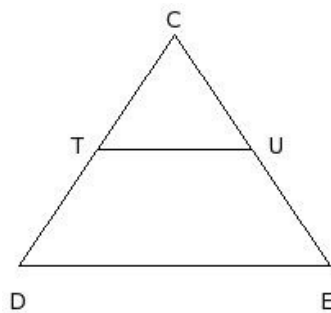
59. At the same time, a tower casts the shadow 112 m long on the ground.  
Find the height of the tower.



- (i) 122 m (ii) 120 m (iii) 119 m (iv) 118 m (v) 121 m

In the given figure,  $\triangle CDE$ ,  $TU \parallel DE$  such that

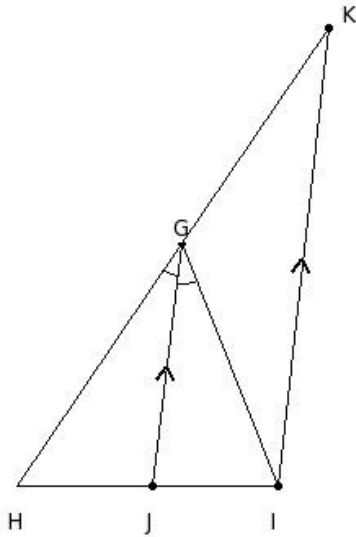
60. area of  $\triangle CTU =$  area of  $TUED$ . Find  $\frac{CT}{CD}$



- (i)  $\frac{1}{2}\sqrt{2}$  (ii)  $\frac{1}{2}\sqrt{2}$  (iii) 1 (iv)  $\frac{1}{2}\sqrt{5}$  (v)  $\frac{1}{2}\sqrt{1}$

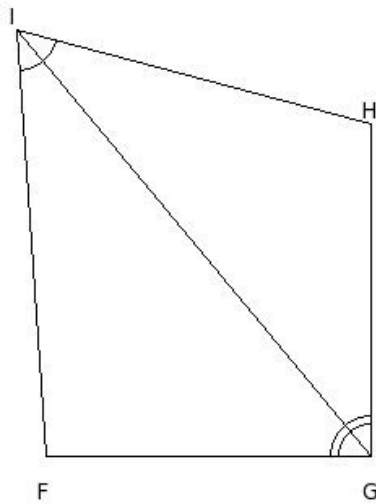


61. In the given figure,  $\angle JGH = \angle IGJ$  and  $GJ \parallel KI$  and  $GH = 18$  cm,  $HJ = 8$  cm and  $JI = 8$  cm. Find  $GK$



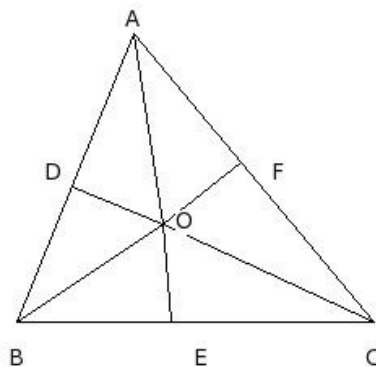
- (i) 16.00 cm (ii) 19.00 cm (iii) 18.00 cm (iv) 17.00 cm (v) 20.00 cm

62. In the given figure,  $GI$  is the angular bisector of  $\angle G$  &  $\angle I$   
 $FG = 20$  cm,  $GH = 21$  cm and  $HI = 23$  cm. Find  $IF$



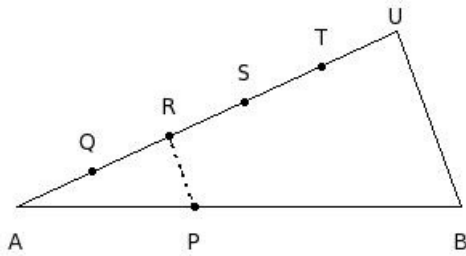
- (i) 21.90 cm (ii) 22.90 cm (iii) 19.90 cm (iv) 20.90 cm (v) 23.90 cm

63. In the given figure,  $ABC$  is a triangle and 'O' is a point inside  $\triangle ABC$ . The angular bisector of  $\angle BOA$ ,  $\angle COB$  &  $\angle AOC$  meet  $AB$ ,  $BC$  &  $CA$  at  $D$ ,  $E$  &  $F$  respectively. Then



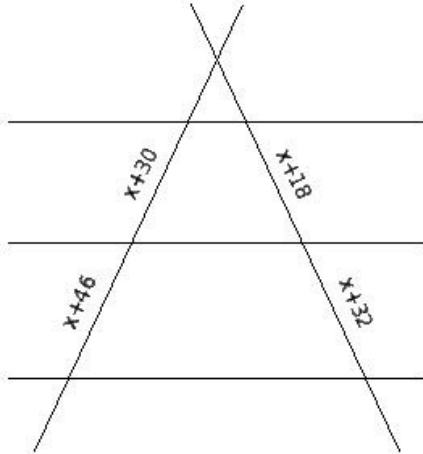
- (i)  $AD \cdot BE \cdot CF = DB \cdot EC \cdot FA$  (ii)  $AD \cdot BE \cdot CF = AB \cdot BC \cdot CA$  (iii)  $AD \cdot BE \cdot CF = DE \cdot EF \cdot FD$   
 (iv)  $AD \cdot BE \cdot CF = OD \cdot OE \cdot OF$  (v)  $AD \cdot BE \cdot CF = OA \cdot OB \cdot OC$

64. In the given figure, if A, Q, R, S, T, U are equidistant and  $RP \parallel UB$  and  $AB = 28$  cm and  $AP = 11$  cm. Find PB



- (i) 19.00 cm (ii) 16.00 cm (iii) 18.00 cm (iv) 17.00 cm (v) 15.00 cm

65. From the given figure and values, find x

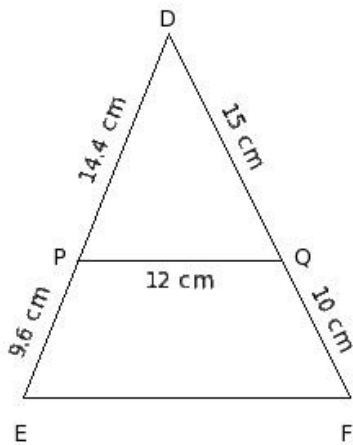


- (i) (66,65) (ii) (68,68) (iii) (67,67) (iv) (66,66) (v) (69,66)

66. The ratio of the bases of two triangles ABC and DEF is 10:8 .  
If the triangles are equal in area, then the ratio of their heights is

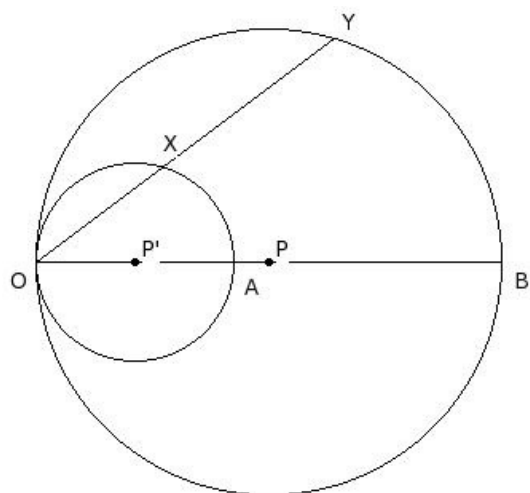
- (i) 10:11 (ii) 11:8 (iii) 10:6 (iv) 8:10 (v) 9:8

67. If the measures are as shown in the given figure, find EF



- (i) 19.0 cm (ii) 20.0 cm (iii) 22.0 cm (iv) 21.0 cm (v) 18.0 cm

68. In the given figure, the two circles touch each other internally.  
Diameter  $OB$  passes through the centre of the smaller circle.  
 $OX = 10$  cm,  $OY = 23$  cm and radius of the inner circle is  $6.2$  cm.  
Find the radius of the outer circle.



- (i) 12.26 cm   (ii) 15.26 cm   (iii) 13.26 cm   (iv) 14.26 cm   (v) 16.26 cm

## Assignment Key

1) (v)	2) (v)	3) (i)	4) (ii)	5) (iii)	6) (ii)
7) (iv)	8) (iv)	9) (iii)	10) (ii)	11) (iii)	12) (i)
13) (i)	14) (iii)	15) (i)	16) (iii)	17) (ii)	18) (ii)
19) (iii)	20) (v)	21) (v)	22) (i)	23) (ii)	24) (i)
25) (i)	26) (i)	27) (iii)	28) (ii)	29) (i)	30) (iii)
31) (ii)	32) (v)	33) (iv)	34) (i)	35) (iii)	36) (iv)
37) (ii)	38) (ii)	39) (i)	40) (ii)	41) (iii)	42) (i)
43) (i)	44) (v)	45) (iv)	46) (i)	47) (iv)	48) (i)
49) (v)	50) (iv)	51) (iii)	52) (v)	53) (v)	54) (i)
55) (v)	56) (i)	57) (i)	58) (iv)	59) (ii)	60) (ii)
61) (iii)	62) (i)	63) (i)	64) (iv)	65) (iv)	66) (iv)
67) (ii)	68) (iv)				