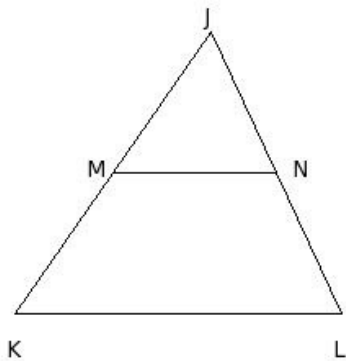




In the given figure $\triangle JKL$,

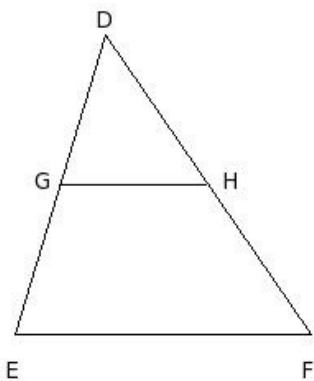
1. M is the mid-point of \overline{JK} and $\overline{MN} \parallel \overline{KL}$, then $JN =$



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

In the given figure $\triangle DEF$,

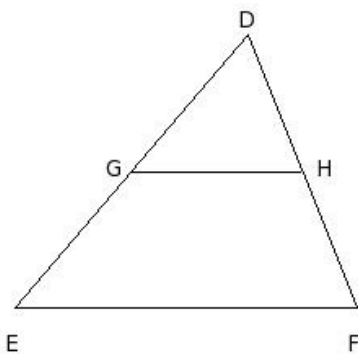
2. G is the mid-point of \overline{DE} and $\overline{GH} \parallel \overline{EF}$, then $DG =$



- (i) $\frac{FD}{2}$ (ii) EF (iii) $\frac{EF}{2}$ (iv) DH (v) $\frac{DE}{2}$

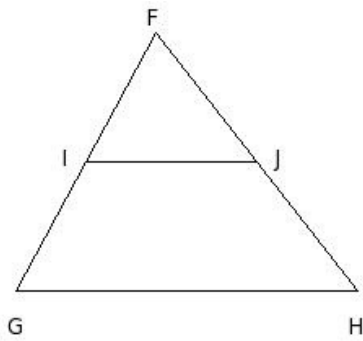
In the given figure $\triangle DEF$,

3. G is the mid-point of \overline{DE} and $\overline{GH} \parallel \overline{EF}$, then $DG =$



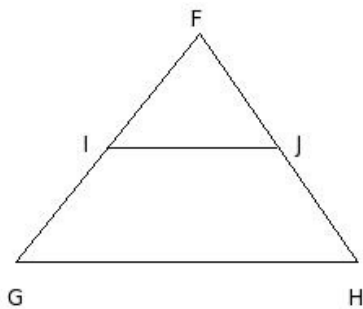
- (i) DH (ii) DE (iii) GE (iv) HF (v) FD

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



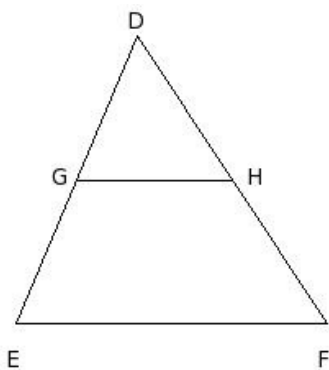
- (i) FI (ii) HF (iii) JH (iv) FJ (v) FG

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



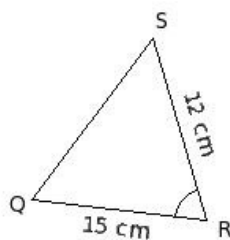
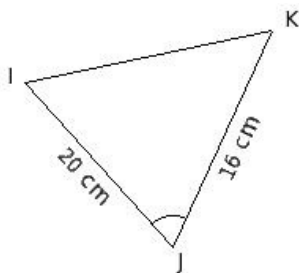
- (i) JH (ii) FI (iii) FG (iv) IG (v) HF

6. In the given figure $\triangle DEF$,
G is the mid-point of \overline{DE} and $\overline{GH} \parallel \overline{EF}$, then $HF =$



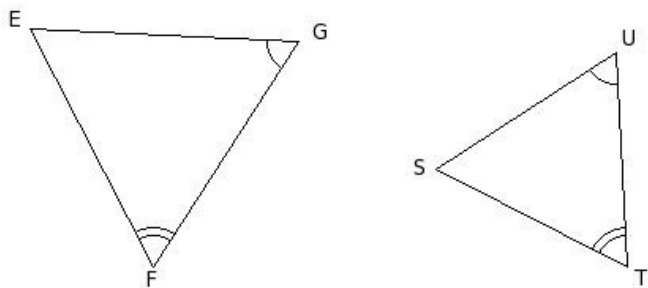
- (i) FD (ii) GE (iii) DE (iv) DH (v) DG

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



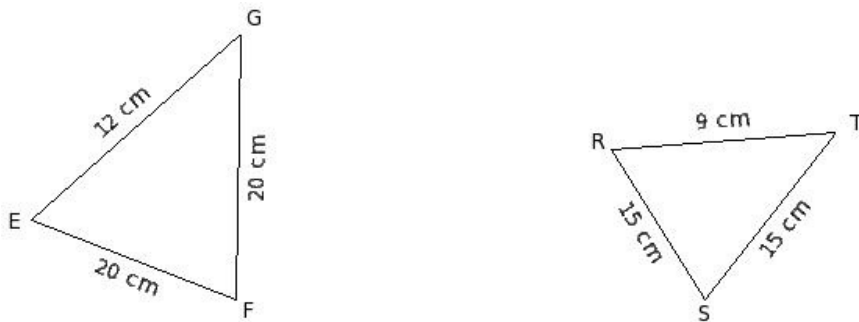
- (i) SSS Similarity (ii) AAA Similarity (iii) not similar (iv) SAS Similarity

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



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

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

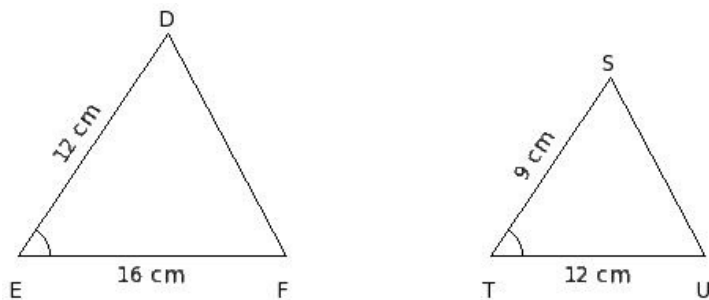


(i) SAS Similarity (ii) AAA Similarity (iii) not similar (iv) SSS Similarity

In the given figure, $\triangle DEF$ and $\triangle STU$ are such that

10. $\angle E = \angle T$ and $\frac{DE}{ST} = \frac{EF}{TU}$.

Identify the property by which the two triangles are similar

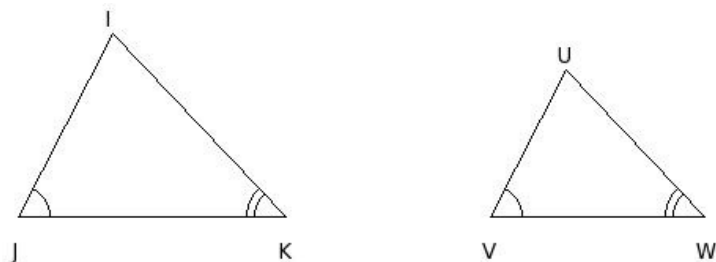


(i) SSS Similarity (ii) AAA Similarity (iii) not similar (iv) SAS Similarity

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

11. $\angle J = \angle V$ and $\angle K = \angle W$.

Identify the property by which the two triangles are similar

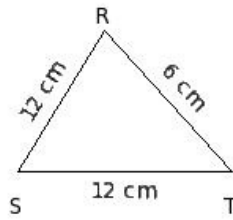
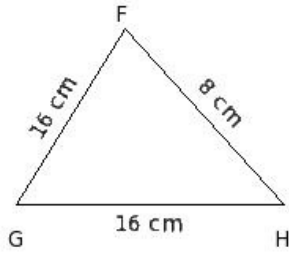


(i) not similar (ii) SSS Similarity (iii) AAA Similarity (iv) SAS Similarity

In the given figure, $\triangle FGH$ and $\triangle RST$ are such that

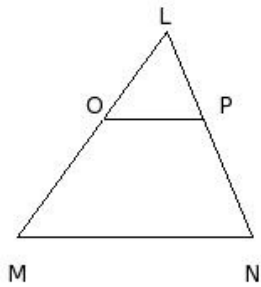
$$12. \frac{FG}{RS} = \frac{GH}{ST} = \frac{HF}{TR}.$$

Identify the property by which the two triangles are similar



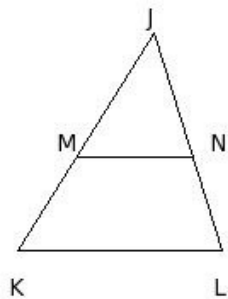
- (i) SAS Similarity (ii) not similar (iii) SSS Similarity (iv) AAA Similarity

13. In the given figure, $OP \parallel MN$. If $\frac{LO}{OM} = \frac{3}{4}$ and $LN = 13.6$ cm, find LP



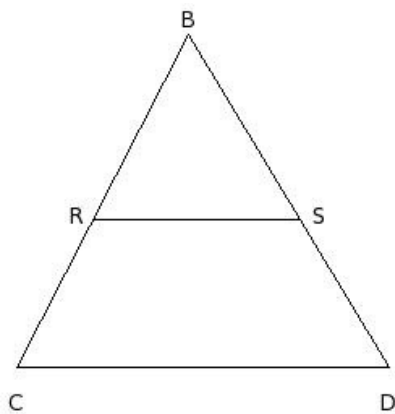
- (i) 7.83 cm (ii) 6.83 cm (iii) 5.83 cm (iv) 3.83 cm (v) 4.83 cm

14. In the given figure, $MN \parallel KL$.
If $JM = 8.69$ cm, $JK = 15.2$ cm and $JL = 13.7$ cm, find JN



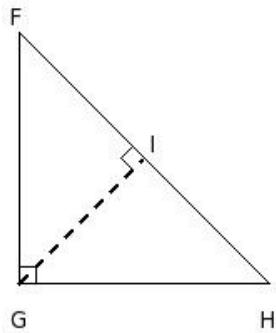
- (i) 9.83 cm (ii) 7.83 cm (iii) 5.83 cm (iv) 8.83 cm (v) 6.83 cm

15. In the given figure, $RS \parallel CD$ and $BR = 13.8$ cm, $BC = 23$ cm and $RS = 13.8$ cm, find CD



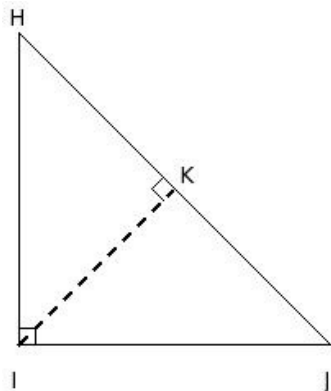
- (i) 21.0 cm (ii) 25.0 cm (iii) 22.0 cm (iv) 23.0 cm (v) 24.0 cm

16. In the given figure, $\triangle FGH$ is isosceles right-angled at G and $GI \perp HF$. $\angle F =$



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

17. In the given figure, $\triangle HIJ$ is isosceles right-angled at I and $IK \perp JH$. $\angle IJH \neq$

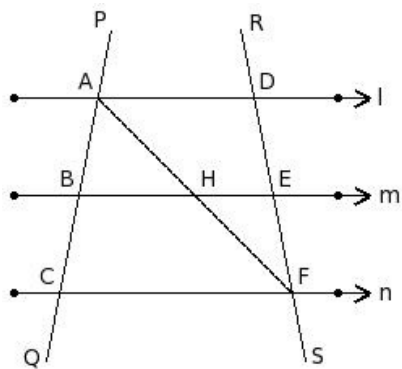


- (i) $\angle KIJ$ (ii) $\angle HIJ$ (iii) $\angle KHI$ (iv) $\angle HIK$ (v) $\angle IJK$

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.

$\triangle ABH \sim$

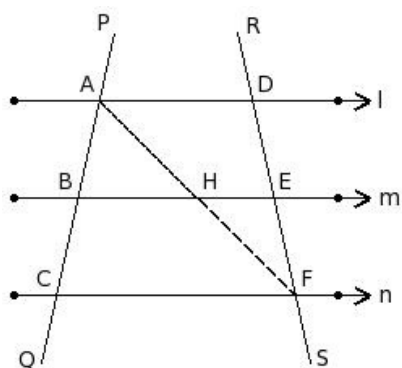


- (i) $\triangle DAE$ (ii) $\triangle FDA$ (iii) $\triangle DCF$ (iv) $\triangle FEH$ (v) $\triangle ACF$

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.

$\angle HFE =$

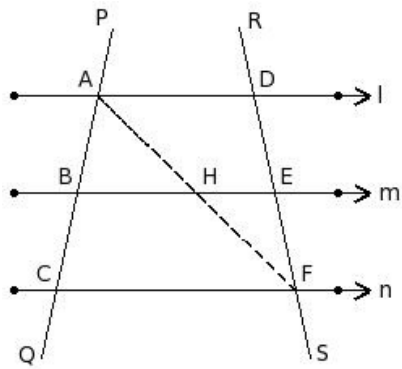


- (i) $\angle AFD$ (ii) $\angle FAC$ (iii) $\angle FDA$ (iv) $\angle HAB$ (v) $\angle FEH$

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.

$\angle FDA =$

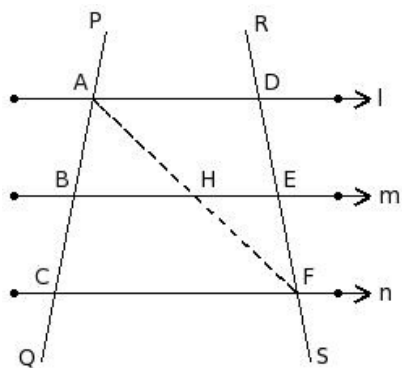


- (i) $\angle ABH$ (ii) $\angle FEH$ (iii) $\angle ACF$ (iv) $\angle EHF$ (v) $\angle DAF$

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.

$\angle EHF =$

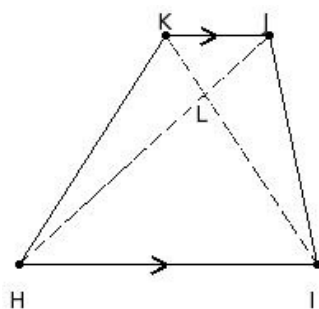


- (i) $\angle BHA$ (ii) $\angle HFE$ (iii) $\angle CFA$ (iv) $\angle AFD$ (v) $\angle DAF$

In the given figure, HJK is a trapezium in which

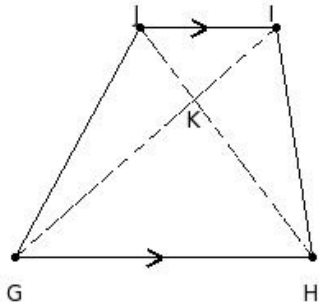
$HI \parallel JK$ and the diagonals IK and HJ intersect at L .

22. If $LH = (x+80)$ cm, $IL = (2x+16)$ cm, $LJ = (x+8)$ cm and $KL = (x+18)$ cm, find the value of x



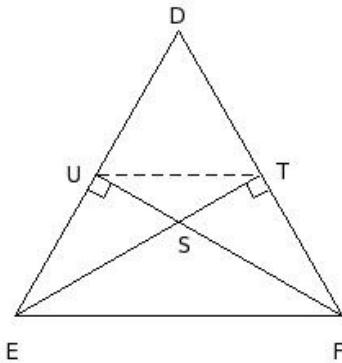
- (i) $(84, -16)$ (ii) $(82, -17)$ (iii) $(-14, 84)$ (iv) $(82, -16)$ (v) $(83, -15)$

23. In the given figure, $GHIJ$ is a trapezium in which $GH \parallel IJ$ and the diagonals HJ and GI intersect at K . $\triangle KIJ \sim$



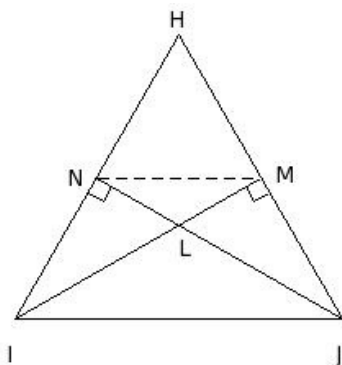
- (i) $\triangle JGH$ (ii) $\triangle KHI$ (iii) $\triangle KGH$ (iv) $\triangle KJG$ (v) $\triangle HIJ$

24. In the given figure, the altitudes TE and FU of $\triangle DEF$ meet at S . $\triangle SUT \sim$



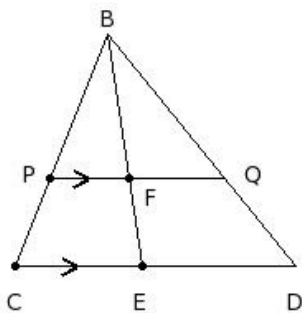
- (i) $\triangle SEF$ (ii) $\triangle TFS$ (iii) $\triangle UEF$ (iv) $\triangle UES$ (v) $\triangle TFE$

25. In the given figure, the altitudes MI and JN of $\triangle HIJ$ meet at L . $\angle JML =$



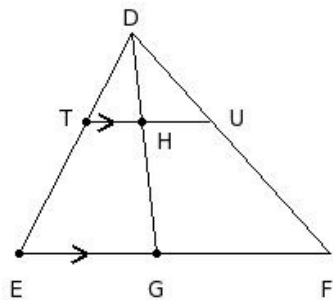
- (i) $\angle NIL$ (ii) $\angle LJM$ (iii) $\angle MLJ$ (iv) $\angle LNI$ (v) $\angle ILN$

26. In the given figure, $PQ \parallel CD$, and median BE bisects PQ .
If $BC = 15$ cm, $BE = 15.1$ cm and $BP = 9.38$ cm, $BF =$



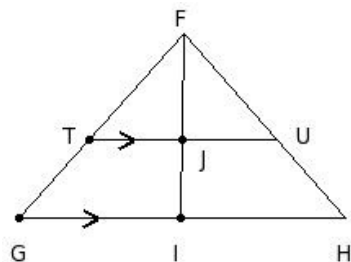
- (i) 9.44 cm (ii) 8.44 cm (iii) 10.44 cm (iv) 11.44 cm (v) 7.44 cm

27. In the given figure, $TU \parallel EF$, and median DG bisects TU .
If $DG = 13.5$ cm, $DH = 5.4$ cm and $DU = 7.2$ cm, $DF =$



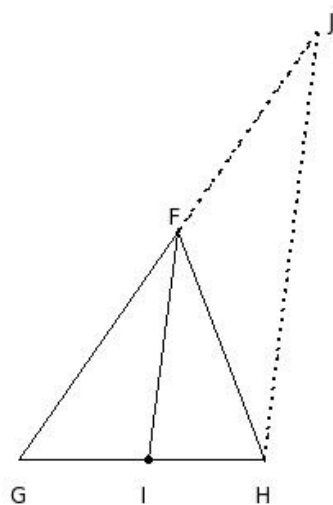
- (i) 17.00 cm (ii) 19.00 cm (iii) 16.00 cm (iv) 20.00 cm (v) 18.00 cm

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



- (i) $\triangle FJU$ (ii) $\triangle FTJ$ (iii) $\triangle FGI$ (iv) $\triangle FGH$ (v) $\triangle GHF$

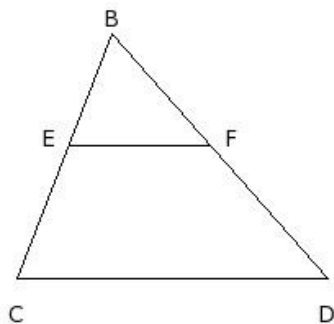
29. In the given figure, $\triangle FGH$ is a triangle in which FI is the internal bisector of $\angle F$ and $HJ \parallel FI$ meeting GF produced at J . $\angle IFG =$



- (i) $\angle IHF$ (ii) $\angle GIF$ (iii) $\angle FHJ$ (iv) $\angle JFH$ (v) $\angle FIH$

30. In the given figure, E and F are points on the sides BC and BD respectively of $\triangle BCD$. For which of the following cases, $EF \parallel CD$

- a) $BC = 16$ cm, $BE = 9.27$ cm, $BD = 20$ cm and $FD = 10.91$ cm
- b) $BC = 16$ cm, $EC = 8.73$ cm, $BD = 20$ cm and $BF = 9.09$ cm
- c) $BE = 7.27$ cm, $EC = 8.73$ cm, $BF = 9.09$ cm and $FD = 10.91$ cm
- d) $BC = 16$ cm, $EC = 8.73$ cm, $BF = 11.09$ cm and $BD = 20$ cm



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

31. Which of the following are true?

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

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

32. Which of the following are true?

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

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

33. Which of the following are true?

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

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

34. Which of the following are true?

- a) Area of the union of two polygonal region is the sum of the individual area.
- b) Area of the union of two polygonal region is not equal to the sum of the individual area.
- 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) A polygonal region can be divided into a finite number of triangles in a unique way.

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

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

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

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

36. Which of the following are true?

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

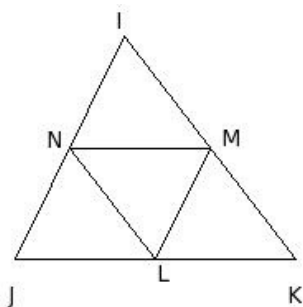
(i) $\{a,b,c\}$ (ii) $\{a,b\}$ (iii) $\{a,c\}$ (iv) $\{a,d\}$ (v) $\{b,c,d\}$

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

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

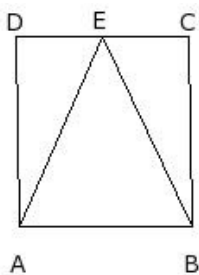
38. In the given figure, the area of the $\triangle IJK$ is x sq.cm. L,M,N are the mid-points of the sides JK , KI and IJ respectively. The area of the $\triangle LMN$ is



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

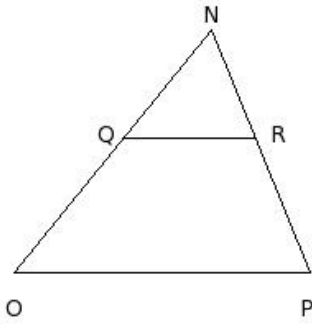
39. In the given figure, the parallelogram ABCD and the triangle $\triangle EAB$ are on the same bases and between the same parallels.

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



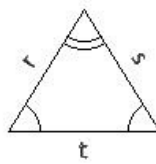
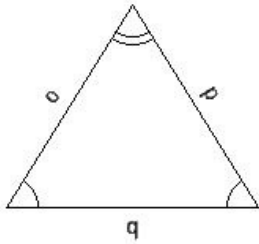
(i) $\frac{5}{4}$ the area of the triangle (ii) thrice the area of the triangle (iii) $\frac{4}{3}$ the area of the triangle
(iv) twice the area of the triangle (v) $\frac{3}{2}$ the area of the triangle

40. In the given $\triangle NOP$, $QR \parallel OP$. If $NQ : QO = 8.44 \text{ cm} : 10.56 \text{ cm}$ and $NP = 16 \text{ cm}$, $RP =$



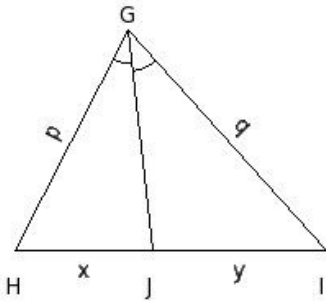
- (i) 10.89 cm (ii) 8.89 cm (iii) 6.89 cm (iv) 9.89 cm (v) 7.89 cm

41. In the given two similar triangles, if $o = 15 \text{ cm}$, $p = 15 \text{ cm}$, $q = 16 \text{ cm}$, $s = 9 \text{ cm}$, find t



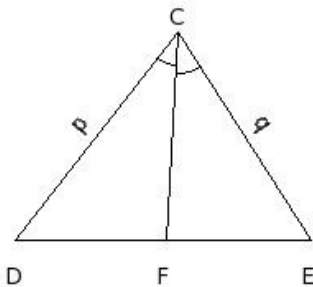
- (i) 8.60 cm (ii) 9.60 cm (iii) 7.60 cm (iv) 10.60 cm (v) 11.60 cm

42. In the given figure, given $\angle JGH = \angle IGJ$, $x : y = 8.64 \text{ cm} : 10.36 \text{ cm}$ and $p = 15 \text{ cm}$, find $q =$



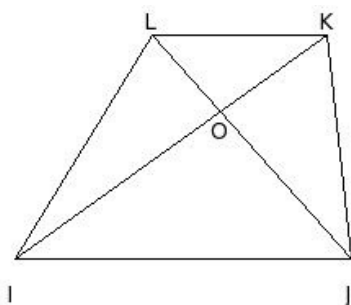
- (i) 18.00 cm (ii) 16.00 cm (iii) 17.00 cm (iv) 19.00 cm (v) 20.00 cm

43. In the given figure, given $\angle FCD = \angle ECF$, $p = 9.29 \text{ cm}$, $q = 8.71 \text{ cm}$ and $DE = 18 \text{ cm}$, find $DF =$



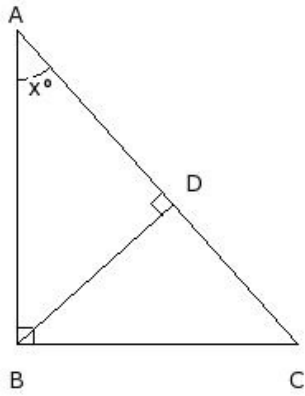
- (i) 8.29 cm (ii) 7.29 cm (iii) 10.29 cm (iv) 9.29 cm (v) 11.29 cm

44. In the given figure, IJKL is a trapezium where $OL = 14 \text{ cm}$, $OK = 5 \text{ cm}$ and $OL = 5 \text{ cm}$. Find $OJ =$



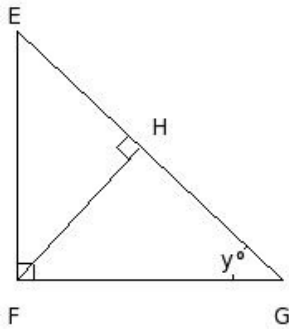
- (i) 14 cm (ii) 13 cm (iii) 15 cm (iv) 16 cm (v) 12 cm

45. In the given figure, $\angle ABD = 48.18^\circ$, find the value of $x =$



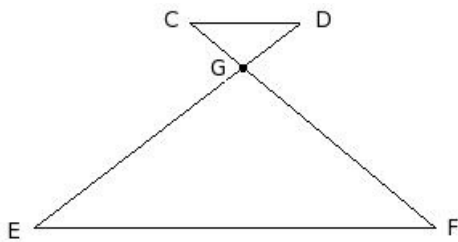
- (i) 43.82° (ii) 39.82° (iii) 42.82° (iv) 41.82° (v) 40.82°

46. In the given figure, $\angle HFG = 47.23^\circ$, find the value of $y =$



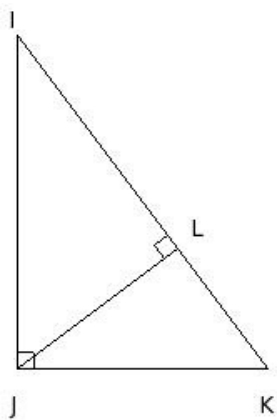
- (i) 43.77° (ii) 42.77° (iii) 40.77° (iv) 41.77° (v) 44.77°

47. In the given figure, if $CD \parallel EF$ then



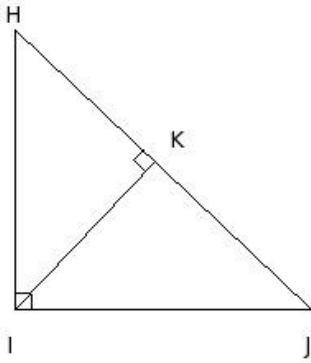
- (i) $\triangle CDG \sim \triangle GFE$ (ii) $\triangle GCD \sim \triangle GEF$ (iii) $\triangle CDG \sim \triangle GEF$ (iv) $\triangle GDC \sim \triangle GFE$ (v) $\triangle CDG \sim \triangle FEG$

48. In the given figure, $\triangle IJK$ is right-angled at J . Also, $JL \perp IK$. If $JK = 15$ cm, $JL = 12$ cm, then find IJ .



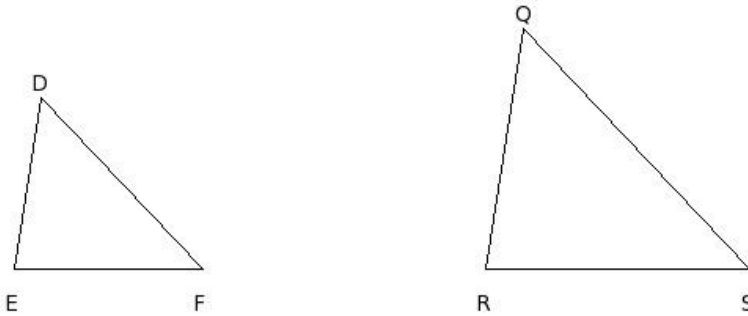
- (i) 19.00 cm (ii) 18.00 cm (iii) 20.00 cm (iv) 21.00 cm (v) 22.00 cm

49. In the given figure, $\triangle HIJ$ is right-angled at I. Also, $IK \perp HJ$. If $HK = 11.7$ cm, $KJ = 13.1$ cm, then find IK.



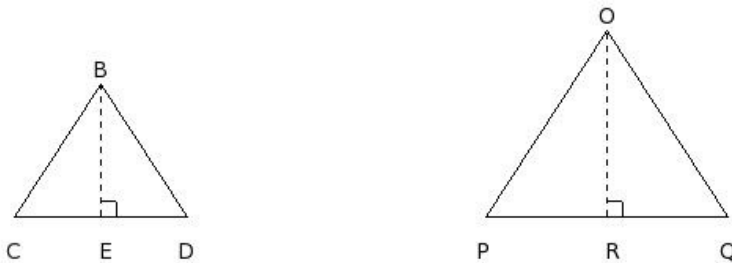
- (i) 10.38 cm (ii) 11.38 cm (iii) 14.38 cm (iv) 12.38 cm (v) 13.38 cm

50. In the given figure, $\triangle DEF \sim \triangle QRS$ and $DE = 11$ cm, $QR = 15.4$ cm.
If the area of the $\triangle DEF = 65.24$ sq.cm, find the area of the $\triangle QRS$



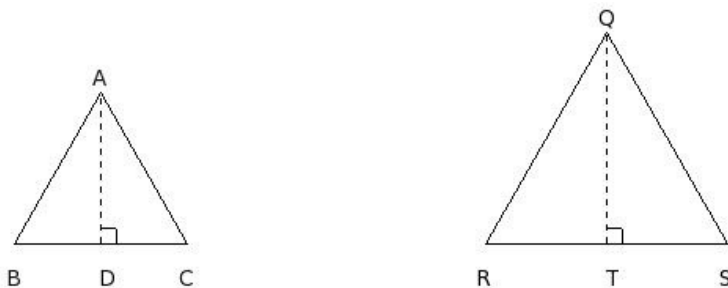
- (i) 129.87 sq.cm (ii) 125.87 sq.cm (iii) 126.87 sq.cm (iv) 127.87 sq.cm (v) 128.87 sq.cm

51. In the given figure, $\triangle BCD \sim \triangle OPQ$ and $CD = 11$ cm, $PQ = 15.4$ cm and $OR = 11.69$ cm, find the area of the $\triangle BCD$



- (i) 45.93 sq.cm (ii) 47.93 sq.cm (iii) 44.93 sq.cm (iv) 46.93 sq.cm (v) 43.93 sq.cm

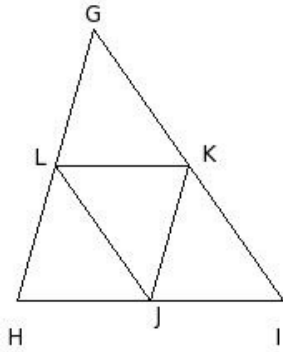
52. In the given figure, $\triangle ABC$ & $\triangle QRS$ are similar triangles. If the ratio of the heights $AD : QT = 10 : 13$, then the ratio of their areas is



- (i) 100sq.cm:167sq.cm (ii) 99sq.cm:169sq.cm (iii) 101sq.cm:169sq.cm (iv) 100sq.cm:169sq.cm
(v) 100sq.cm:171sq.cm

53. In the given figure, points J , K and L are the mid-points of sides HI, IG and GH of $\triangle GHI$. Which of the following are true?

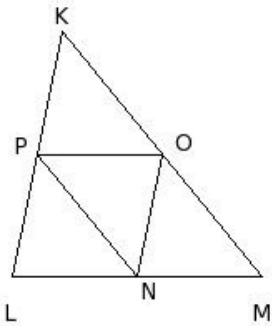
- a) Area of $\triangle GHI = 4$ times area of $\triangle JKL$
- b) Area of $\triangle GHI = \frac{1}{3}$ area of $\triangle JKL$
- c) All four small triangles have equal areas
- d) Area of trapezium HIKL is thrice the area of $\triangle GLK$
- e) Area of trapezium HIKL is $\frac{1}{4}$ the area of $\triangle GHI$



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

54. In the given figure, points N , O and P are the mid-points of sides LM, MK and KL of $\triangle KLM$. Which of the following are true?

- a) $\triangle PLN \sim \triangle KLM$
- b) $\triangle ONM \sim \triangle KLM$
- c) $\triangle KPO \sim \triangle KLM$
- d) $\triangle NOP \sim \triangle KLM$
- e) $\triangle NPO \sim \triangle KLM$

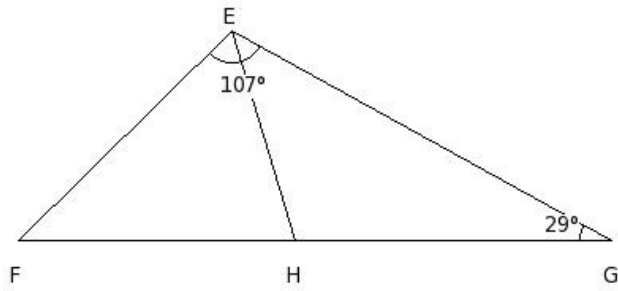


- (i) {e,a} (ii) {e,b} (iii) {e,c} (iv) {e,d,a} (v) {a,b,c,d}

55. The perimeters of two similar triangles are 34 cm and 16 cm respectively. If one side of the first triangle is 14 cm, find the length of the corresponding side of the second triangle.

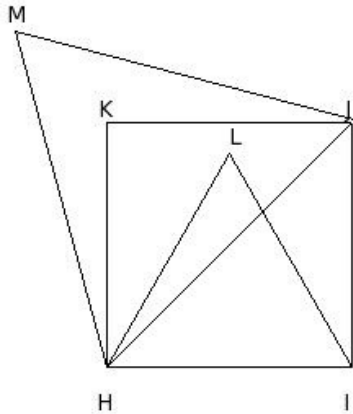
- (i) 5.59 cm (ii) 7.59 cm (iii) 4.59 cm (iv) 8.59 cm (v) 6.59 cm

56. In the given figure, H is a point on side FG of $\triangle EFG$ such that $\angle GEF = \angle EHG = 107^\circ$, $\angle HGE = 29^\circ$. Find $\angle GEH$



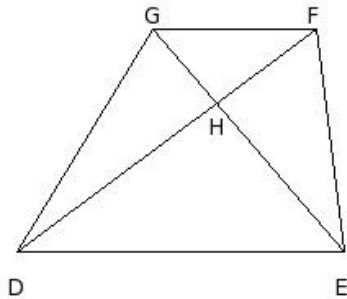
- (i) 44° (ii) 45° (iii) 43° (iv) 46° (v) 42°

57. HIJK is a square and $\triangle HIL$ is an equilateral triangle. Also, $\triangle HJM$ is an equilateral triangle. If area of $\triangle HIL$ is 'a' sq.units, then the area of $\triangle HJM$ is



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

58. DEFG is a cyclic trapezium. Diagonals EG and DF intersect at H. If $GD = 16$ cm, find EF

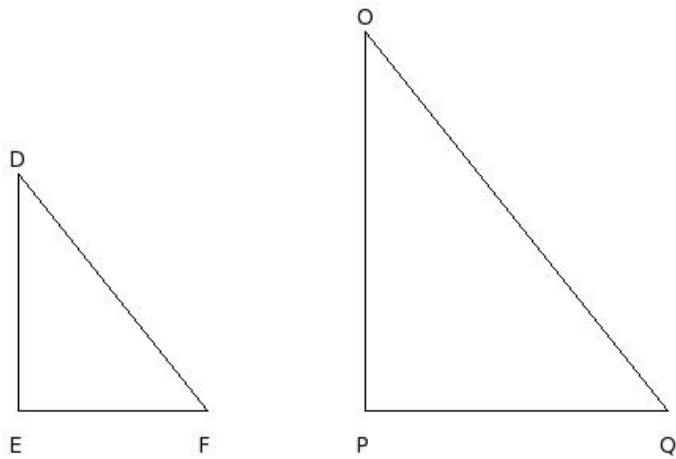


- (i) 16 cm (ii) 15 cm (iii) 18 cm (iv) 14 cm (v) 17 cm

A vertical stick 15 m long casts a shadow of 12 m long on the ground.

59. At the same time, a tower casts the shadow 96 m long on the ground.

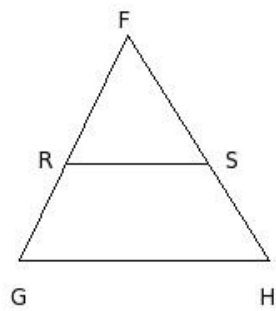
Find the height of the tower.



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

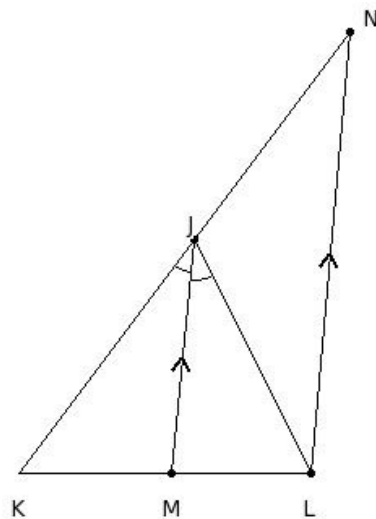
In the given figure, $\triangle FGH$, $RS \parallel GH$ such that

60. area of $\triangle FRS = \text{area of } RSHG$. Find $\frac{FR}{FG}$



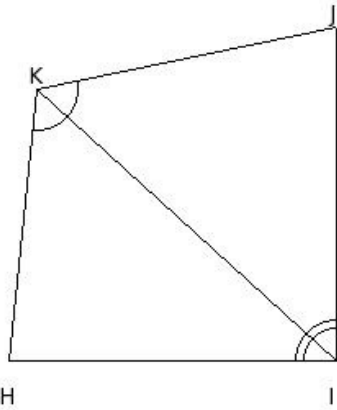
- (i) $\frac{1}{2}\sqrt{2}$ (ii) $\frac{1}{2}\sqrt{-1}$ (iii) $\frac{1}{2}\sqrt{5}$ (iv) $\frac{1}{2}\sqrt{2}$ (v) 1

61. In the given figure, $\angle MJK = \angle LJM$ and $JM \parallel NL$ and $JK = 18$ cm, $KM = 9$ cm and $ML = 9$ cm. Find JN



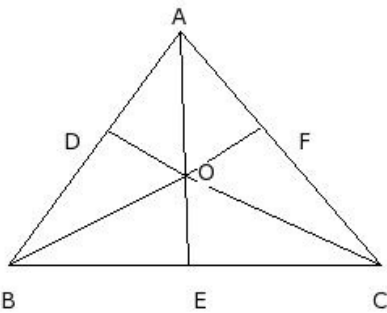
- (i) 17.00 cm (ii) 18.00 cm (iii) 20.00 cm (iv) 16.00 cm (v) 19.00 cm

62. In the given figure, IK is the angular bisector of $\angle I$ & $\angle K$
 $HI = 20$ cm, $IJ = 20$ cm and $JK = 19$ cm. Find KH



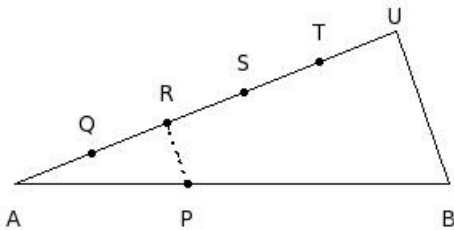
- (i) 21.00 cm (ii) 20.00 cm (iii) 18.00 cm (iv) 17.00 cm (v) 19.00 cm

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



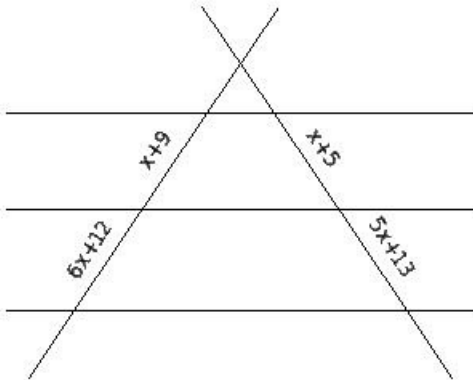
- (i) $AD \cdot BE \cdot CF = OA \cdot OB \cdot OC$ (ii) $AD \cdot BE \cdot CF = DB \cdot EC \cdot FA$ (iii) $AD \cdot BE \cdot CF = AB \cdot BC \cdot CA$
 (iv) $AD \cdot BE \cdot CF = DE \cdot EF \cdot FD$ (v) $AD \cdot BE \cdot CF = OD \cdot OE \cdot OF$

64. In the given figure, if A, Q, R, S, T, U are equidistant and $RP \parallel UB$ and $AB = 27$ cm. Find AP



- (i) 12.80 cm (ii) 9.80 cm (iii) 10.80 cm (iv) 8.80 cm (v) 11.80 cm

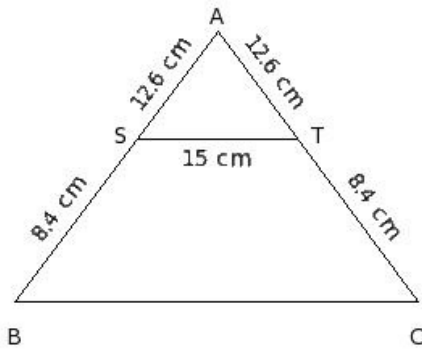
65. From the given figure and values, find x



- (i) (-3,19) (ii) (-2,20) (iii) (-1,19) (iv) (21,-1) (v) (-3,18)

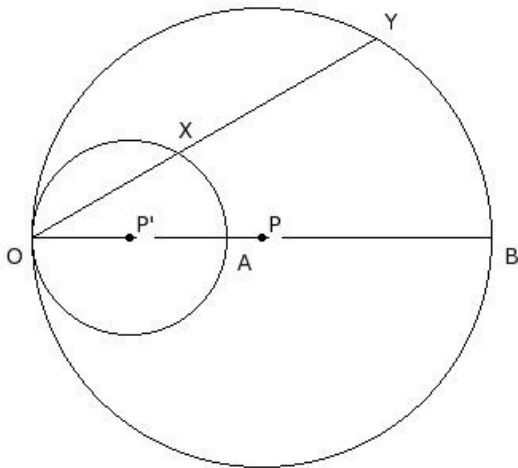
66. The ratio of the bases of two triangles ABC and DEF is 9:3 .
If the triangles are equal in area, then the ratio of their heights is
(i) 8:3 (ii) 9:6 (iii) 3:9 (iv) 9:0 (v) 10:3

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



- (i) 24.0 cm (ii) 27.0 cm (iii) 25.0 cm (iv) 26.0 cm (v) 23.0 cm

68. In the given figure, the two circles touch each other internally.
Diameter OB passes through the centre of the smaller circle.
OX = 11 cm, OY = 25 cm and radius of the inner circle is 6.1 cm.
Find the radius of the outer circle.



- (i) 11.86 cm (ii) 12.86 cm (iii) 14.86 cm (iv) 15.86 cm (v) 13.86 cm

Assignment Key

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