EduSahara™ Worksheet

Name : Chapter Based Worksheet

Chapter : Congruency of Triangles

Grade : SSC Grade VII

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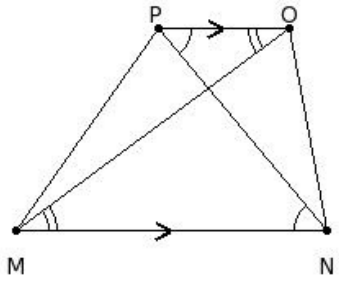
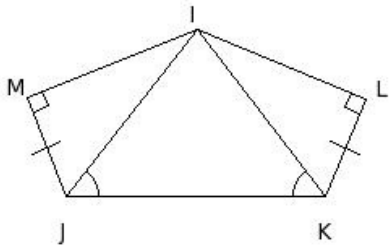
1. With the data in the given figure, △MNP ≅ △NMO by which property?



(i) SSS Congruency (ii) not congruent (iii) RHS Congruency (iv) ASA Congruency (v) SAS Congruency

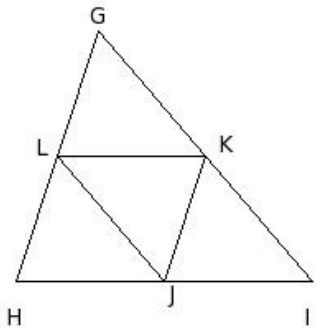
2. With the data in the given figure, △IJM ≅ △IKL by which property?



(i) SAS Congruency (ii) RHS Congruency (iii) SSS Congruency (iv) not congruent (v) ASA Congruency

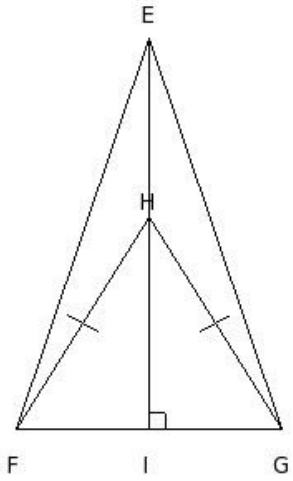
3. In the given figure, points J , K and L are the mid-points of sides HI, IG and GH of △GHI. Which of the following are true?

a) △GLK ≅ △JLK
b) △LHJ ≅ △JKL
c) △LHJ ≅ △GLK
d) △GLK ≅ △JKL
e) △GLK ≅ △KJI



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

4. In the given figure, △HFG is an isosceles triangle. EI ⊥ FG passing through H. △EHF ≅ △EHG by which property?



(i) RHS Congruency (ii) ASA Congruency (iii) not congruent (iv) SAS Congruency (v) SSS Congruency

5. In the given figure, which pair of triangles are not congruent ?

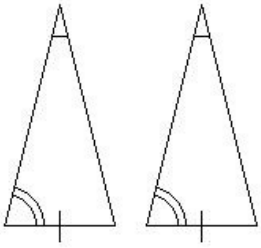


fig 3

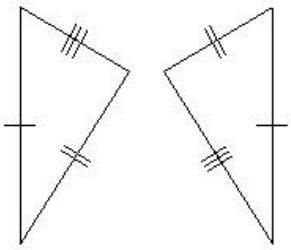


fig 4

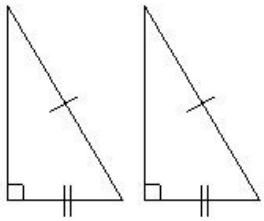


fig 1

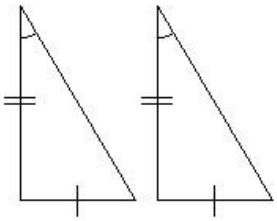
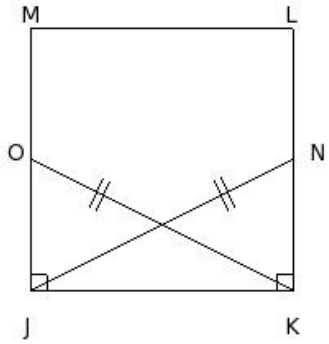


fig 2

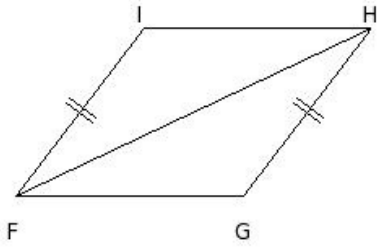
(i) fig 3 (ii) fig 4 (iii) fig 1 (iv) fig 2

6. With the data in the given figure, △OJK ≅ △NKJ by which property?



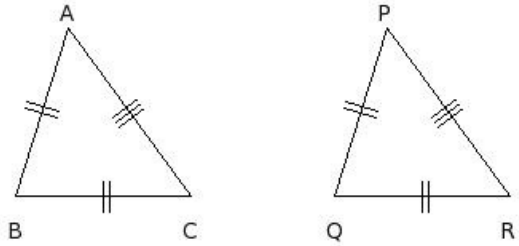
(i) ASA Congruency (ii) SSS Congruency (iii) not congruent (iv) SAS Congruency (v) RHS Congruency

7. With the data in the figure, △FHI ≅ △HFG by which property?



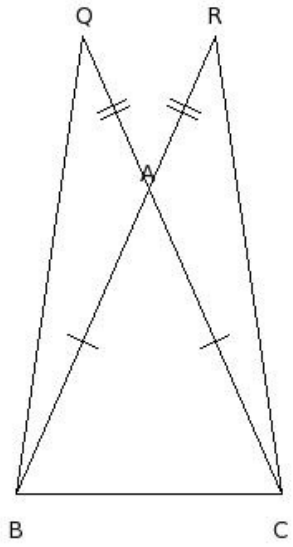
(i) SAS Congruency (ii) RHS Congruency (iii) ASA Congruency (iv) not congruent (v) SSS Congruency

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



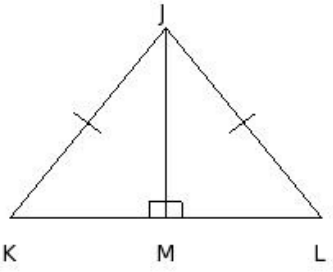
(i) SAS Congruency (ii) RHS Congruency (iii) ASA Congruency (iv) SSS Congruency

9. With the data in the given figure, △QBC ≅ △RCB by which property?



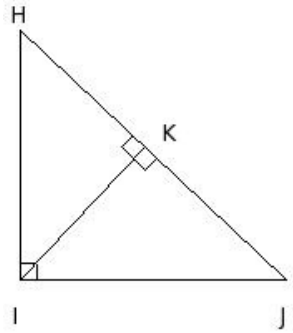
(i) SAS Congruency (ii) RHS Congruency (iii) SSS Congruency (iv) not congruent (v) ASA Congruency

10. With the data in the given figure, △JKM ≅ △JLM by which property?



(i) ASA Congruency (ii) RHS Congruency (iii) SAS Congruency (iv) SSS Congruency (v) not congruent

11. With the data in the figure, △HKI ≅ △JKI by which property?



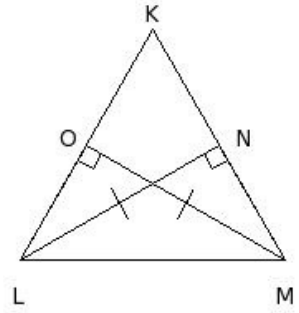
(i) SSS Congruency (ii) not congruent (iii) ASA Congruency (iv) RHS Congruency (v) SAS Congruency

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

13. With the data in the given figure, △LNM ≅ △MOL by which property?

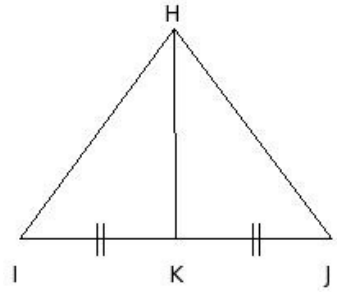


(i) SAS Congruency (ii) ASA Congruency (iii) RHS Congruency (iv) SSS Congruency (v) not congruent

14. In the given figure, which of the following is true?

(i) △DEC ≅ △STU (ii) △CDE ≅ △UTS (iii) △CDE ≅ △TUS (iv) △CDE ≅ △UST (v) △CDE ≅ △STU

15. With the data in the figure, △HKI ≅ △HKJ by which property?



(i) RHS Congruency (ii) not congruent (iii) SSS Congruency (iv) ASA Congruency (v) SAS Congruency

16. In the given figure, which pair of triangles are not congruent ?

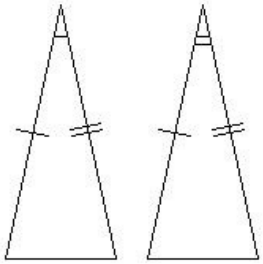


fig 3

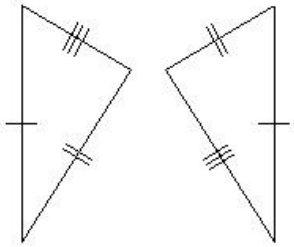


fig 4

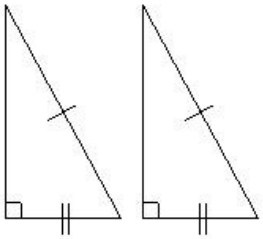


fig 1

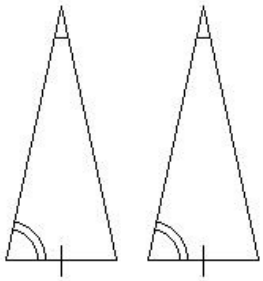
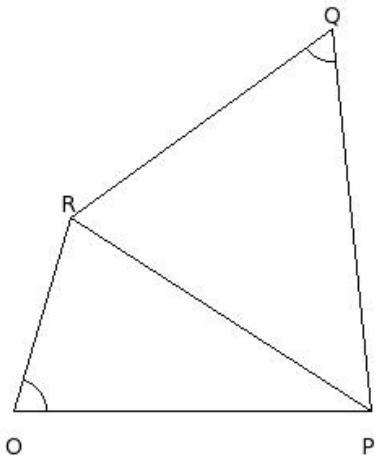


fig 2

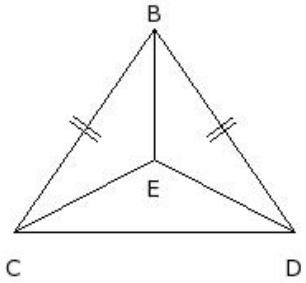
(i) fig 3 (ii) fig 4 (iii) fig 2 (iv) fig 1

17. With the data in the given figure, △OPR ≅ △QRP by which property?



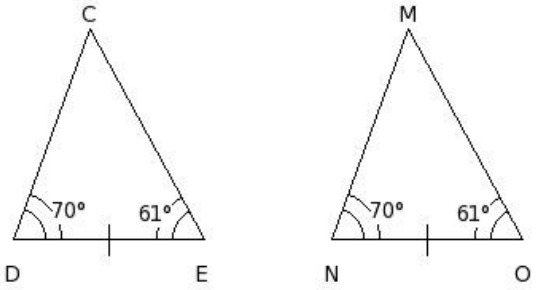
(i) SAS Congruency (ii) RHS Congruency (iii) ASA Congruency (iv) SSS Congruency (v) not congruent

18. With the data in the figure, △BCE ≅ △BDE by which property?



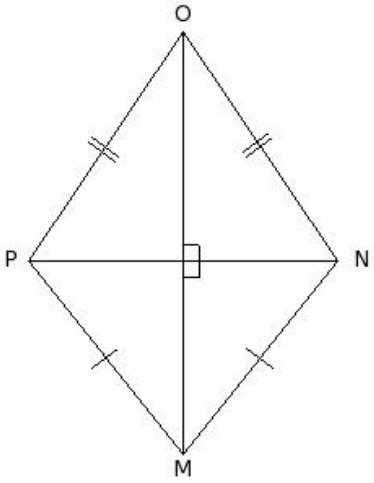
(i) RHS Congruency (ii) ASA Congruency (iii) SSS Congruency (iv) SAS Congruency (v) not congruent

19. Identify the property by which the two given triangles are congruent



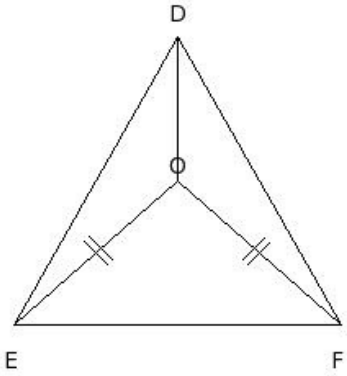
(i) SSS Congruency (ii) ASA Congruency (iii) SAS Congruency (iv) RHS Congruency

20. With the data in the given figure, △MNP ≅ △ONP by which property?



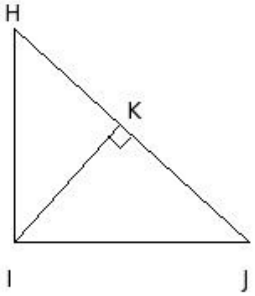
(i) RHS Congruency (ii) SSS Congruency (iii) SAS Congruency (iv) not congruent (v) ASA Congruency

21. With the data in the given figure, △DOE ≅ △DOF by which property?



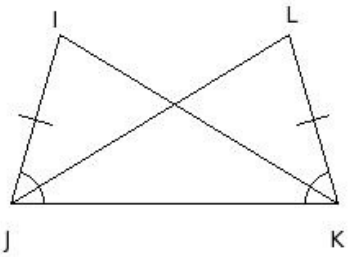
(i) RHS Congruency (ii) not congruent (iii) ASA Congruency (iv) SAS Congruency (v) SSS Congruency

22. With the data in the figure, △HIK ≅ △JIK by which property?



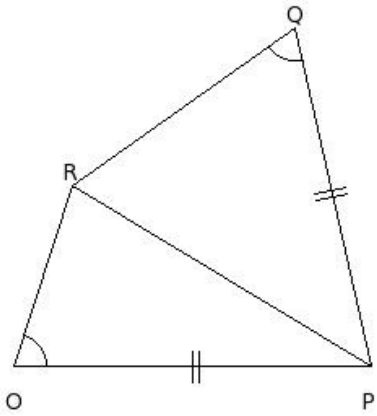
(i) RHS Congruency (ii) SSS Congruency (iii) ASA Congruency (iv) not congruent (v) SAS Congruency

23. With the given data in the figure, △IJK ≅ △LKJ by which property?



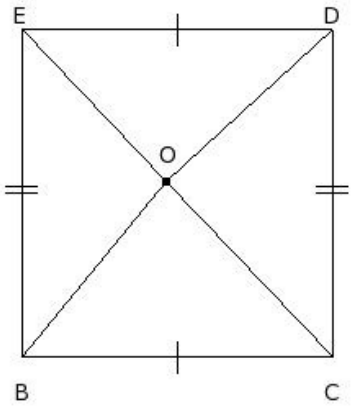
(i) RHS Congruency (ii) ASA Congruency (iii) not congruent (iv) SSS Congruency (v) SAS Congruency

24. With the data in the given figure, △OPR ≅ △QPR by which property?



(i) RHS Congruency (ii) not congruent (iii) SSS Congruency (iv) ASA Congruency (v) SAS Congruency

25. With the data in the figure, △BOC ≅ △EOD by which property?



(i) RHS Congruency (ii) SAS Congruency (iii) not congruent (iv) ASA Congruency (v) SSS Congruency

Assignment Key

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

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