EduSahara™ Worksheet

Name : Chapter Based Worksheet

Chapter : Congruency of Triangles

Grade : SSC Grade VII

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

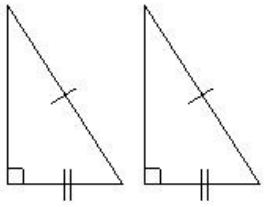


fig 3

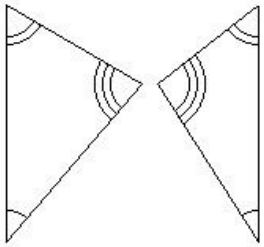


fig 4

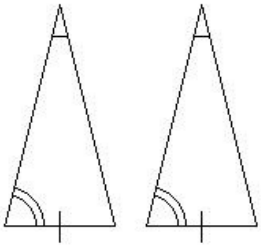


fig 1

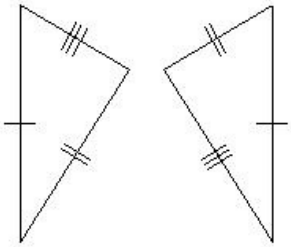
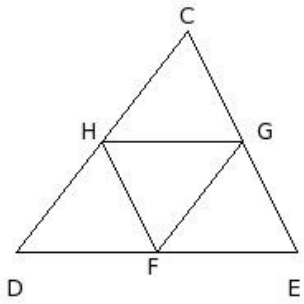


fig 2

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

2. In the given figure, points F , G and H are the mid-points of sides DE, EC and CD of △CDE. Which of the following are true?

a) △HDF ≅ △CHG
b) △HDF ≅ △FGH
c) △CHG ≅ △FHG
d) △CHG ≅ △FGH
e) △CHG ≅ △GFE



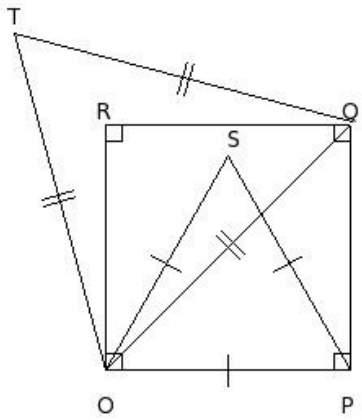
(i) {a,b,d,e} (ii) {c,d} (iii) {c,b} (iv) {c,a} (v) {c,e,a}

3. In the given figure, △FGH ≅ △TSR. Which of the following are true?

a) ∠G = ∠S
b) GH = SR
c) ∠H = ∠R
d) GH = TS
e) ∠F = ∠R

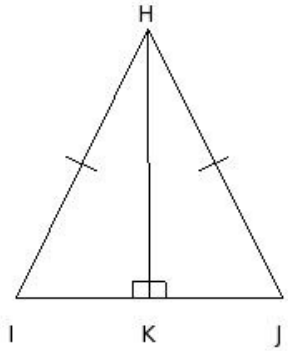
(i) {d,e,c} (ii) {e,b} (iii) {a,b,c} (iv) {d,a,b} (v) {d,a}

4. With the data in the figure, △OPS ≅ △OQT by which property?



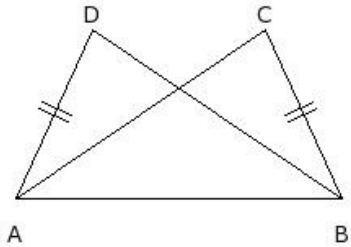
(i) SAS Congruency (ii) RHS Congruency (iii) not congruent (iv) SSS Congruency (v) ASA Congruency

5. With the data in the given figure, △HIK ≅ △HJK by which property?



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

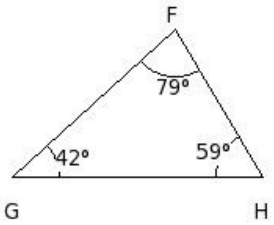
6. With the data in the figure, △ADB ≅ △BCA by which property?

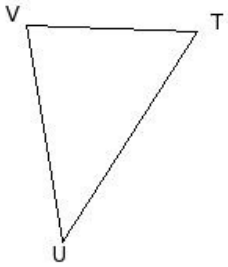


(i) RHS Congruency (ii) not congruent (iii) SAS Congruency (iv) SSS Congruency (v) ASA Congruency

7. In the given figure, △FGH ≅ △VUT. Which of the following are true?

a) ∠U = 42°
b) ∠V = 42°
c) ∠T = 79°
d) ∠V = 79°
e) ∠U = 59°
f) ∠T = 59°





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

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

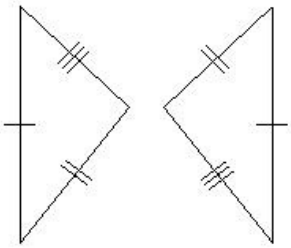


fig 3

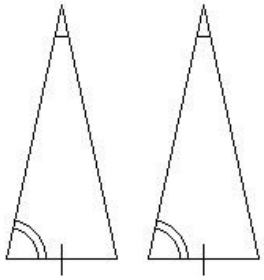


fig 4

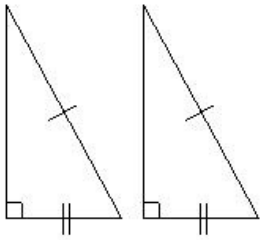


fig 1

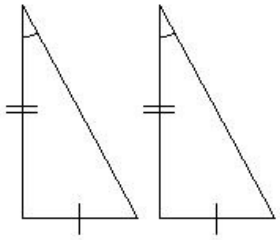
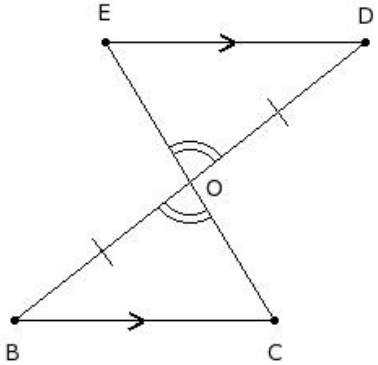


fig 2

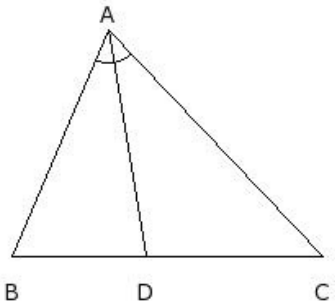
(i) fig 3 (ii) fig 1 (iii) fig 4 (iv) fig 2

9. With the data in the given figure, △OED ≅ △OCB by which property?



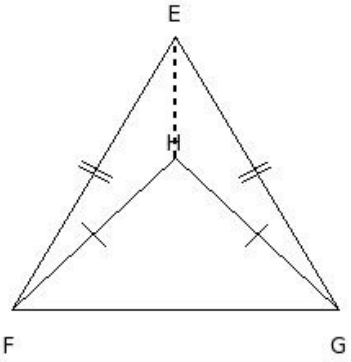
(i) ASA Congruency (ii) SAS Congruency (iii) SSS Congruency (iv) not congruent (v) RHS Congruency

10. With the data in the figure, △ADB ≅ △ADC by which property?



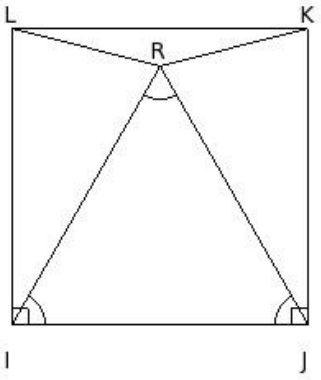
(i) ASA Congruency (ii) RHS Congruency (iii) SAS Congruency (iv) not congruent (v) SSS Congruency

11. With the data in the given figure, △EHF ≅ △EHG by which property?



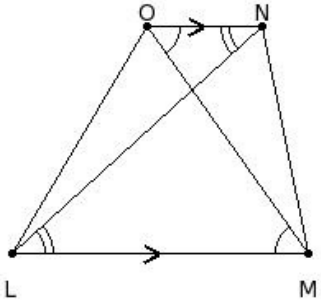
(i) RHS Congruency (ii) ASA Congruency (iii) SAS Congruency (iv) SSS Congruency (v) not congruent

12. In the given figure, IJKL is a square and △RIJ is an equilateral triangle. △RLI ≅ △RKJ by which property?



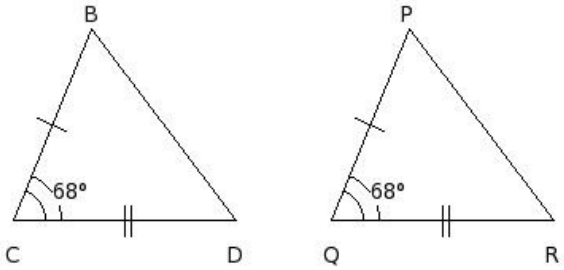
(i) SSS Congruency (ii) not congruent (iii) ASA Congruency (iv) SAS Congruency (v) RHS Congruency

13. With the data in the given figure, △LMO ≅ △MLN by which property?



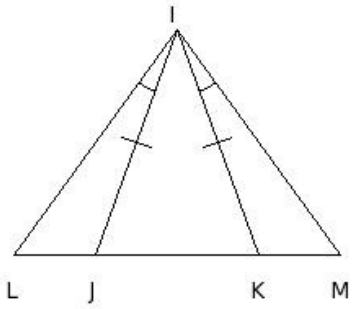
(i) RHS Congruency (ii) ASA Congruency (iii) not congruent (iv) SSS Congruency (v) SAS Congruency

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



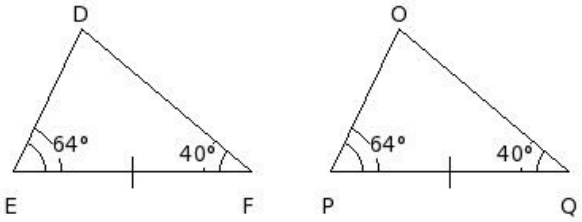
(i) SAS Congruency (ii) RHS Congruency (iii) ASA Congruency (iv) SSS Congruency

15. With the data in the given figure, △IJL ≅ △IKM by which property?



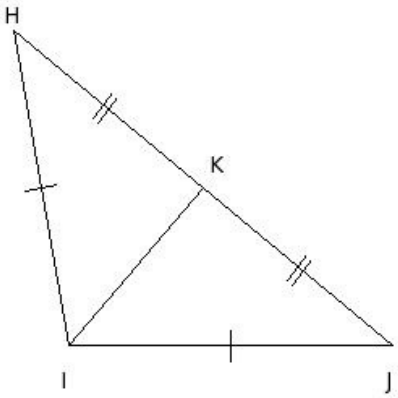
(i) SSS Congruency (ii) RHS Congruency (iii) not congruent (iv) ASA Congruency (v) SAS Congruency

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



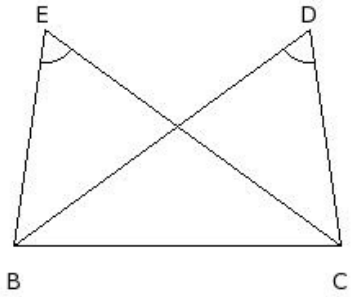
(i) SSS Congruency (ii) SAS Congruency (iii) RHS Congruency (iv) ASA Congruency

17. In the given figure, △HIJ is an obtuse angled triangle. △HIK ≅ △JIK by which property?



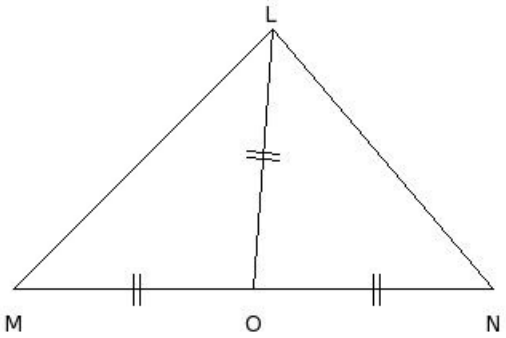
(i) SAS Congruency (ii) not congruent (iii) RHS Congruency (iv) ASA Congruency (v) SSS Congruency

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



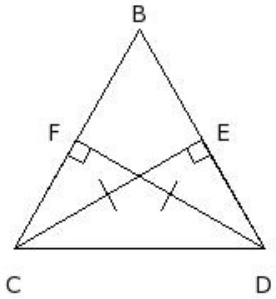
(i) SSS Congruency (ii) not congruent (iii) RHS Congruency (iv) ASA Congruency (v) SAS Congruency

19. With the data in the figure, △LOM ≅ △LON by which property?



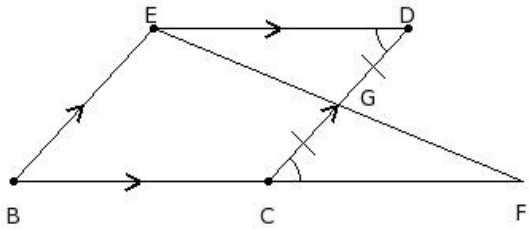
(i) SSS Congruency (ii) RHS Congruency (iii) not congruent (iv) SAS Congruency (v) ASA Congruency

20. With the data in the given figure, △CED ≅ △DFC by which property?



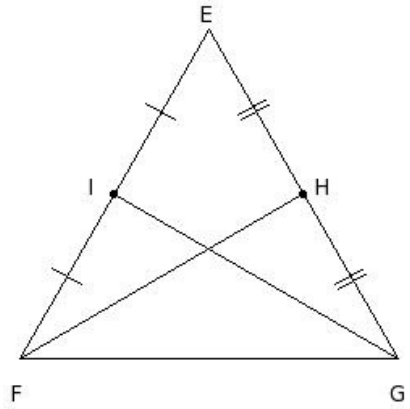
(i) RHS Congruency (ii) ASA Congruency (iii) SSS Congruency (iv) not congruent (v) SAS Congruency

21. With the given data in the figure, △EDG ≅ △FCG by which property?



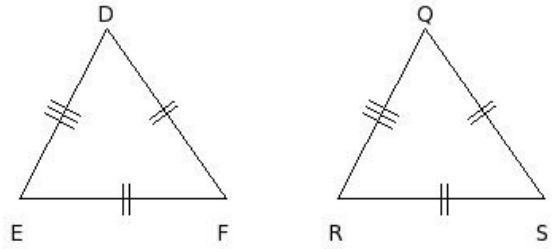
(i) SAS Congruency (ii) RHS Congruency (iii) not congruent (iv) SSS Congruency (v) ASA Congruency

22. With the data in the figure, △FGI ≅ △GFH by which property?



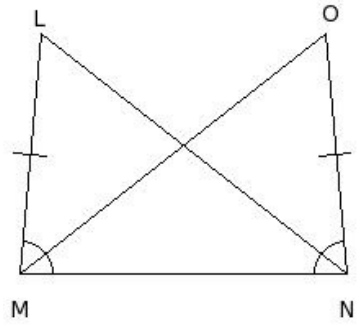
(i) ASA Congruency (ii) not congruent (iii) SSS Congruency (iv) SAS Congruency (v) RHS Congruency

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



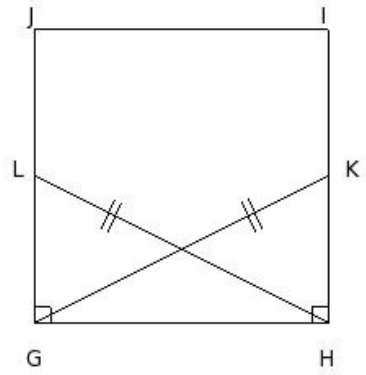
(i) RHS Congruency (ii) ASA Congruency (iii) SAS Congruency (iv) SSS Congruency

24. With the given data in the figure, △LMN ≅ △ONM by which property?



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

25. With the data in the given figure, △LGH ≅ △KHG by which property?



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

Assignment Key

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