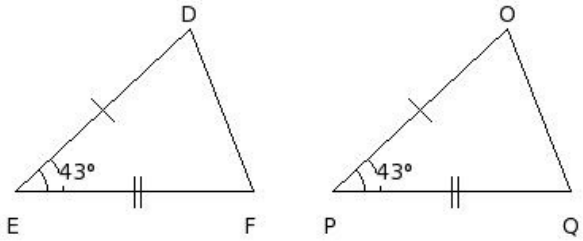
EduSahara™ Assignment

Name : Congruency of Triangles

Chapter : Congruence of Triangles

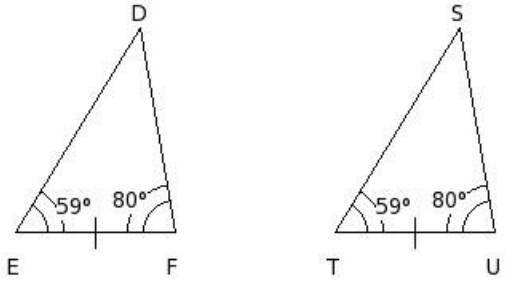
Grade : CBSE Grade VII

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



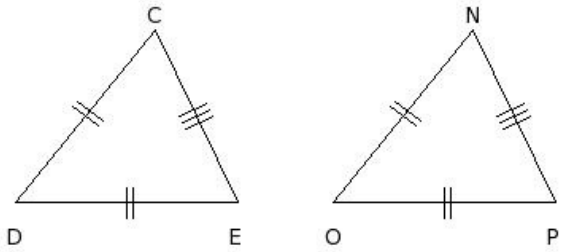
(i) SAS Congruency (ii) SSS Congruency (iii) RHS Congruency (iv) ASA Congruency

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



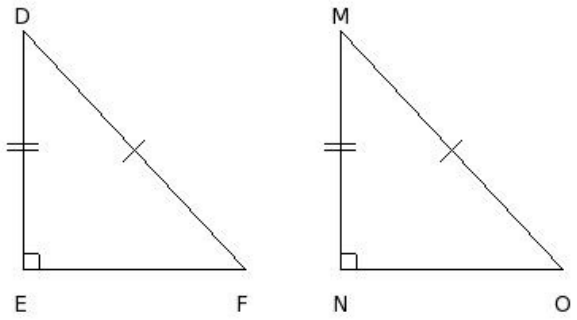
(i) SSS Congruency (ii) SAS Congruency (iii) ASA Congruency (iv) RHS Congruency

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



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

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



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

5. Which of the following are true?

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

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

6. Which of the following are true?

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

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

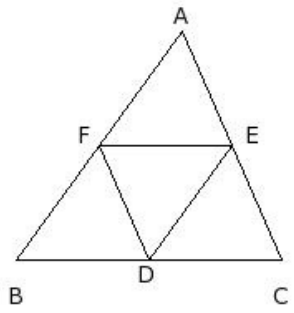
7. Which of the following are true?

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

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

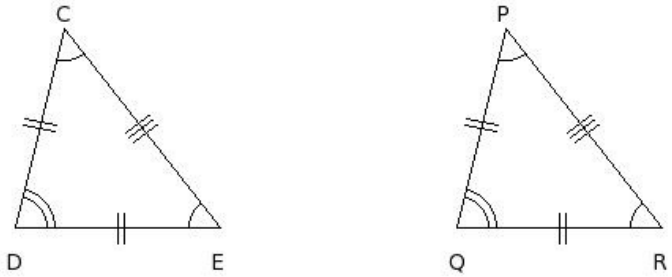
8. In the given figure, points D , E and F are the mid-points of sides BC, CA and AB of △ABC. Which of the following are true?

a) △AFE ≅ △EDC
b) △AFE ≅ △DFE
c) △FBD ≅ △AFE
d) △FBD ≅ △DEF
e) △AFE ≅ △DEF



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

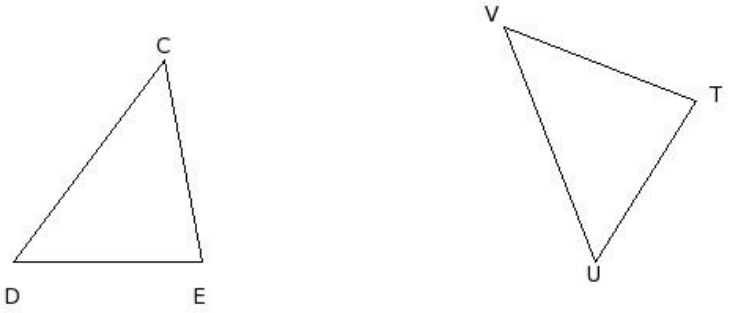
9. In the given figure, which of the following is true?



(i) △DEC ≅ △PQR (ii) △CDE ≅ △RPQ (iii) △CDE ≅ △RQP (iv) △CDE ≅ △QRP (v) △CDE ≅ △PQR

10. In the given figure, △CDE ≅ △VUT. Which of the following are true?

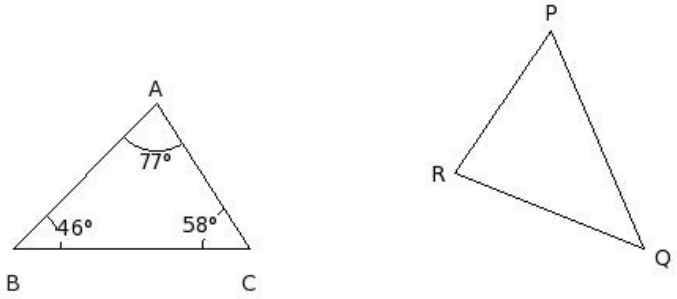
a) ∠E = ∠T
b) ∠D = ∠U
c) DE = VU
d) DE = UT
e) ∠C = ∠T



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

11. In the given figure, △ABC ≅ △RQP. Which of the following are true?

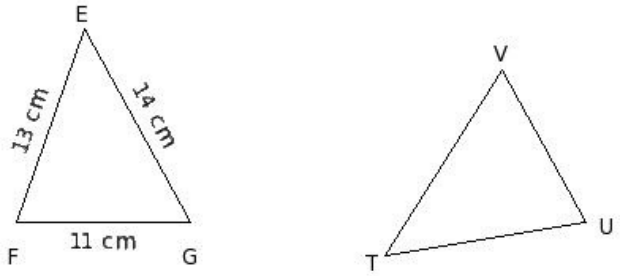
a) ∠Q = 46°
b) ∠R = 77°
c) ∠P = 58°
d) ∠Q = 58°
e) ∠P = 77°
f) ∠R = 46°



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

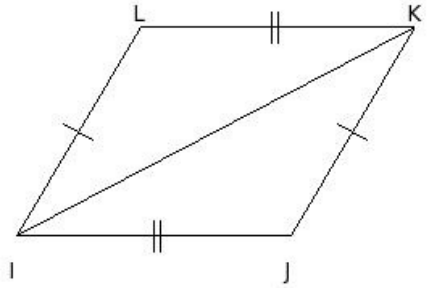
12. In the given figure, △EFG ≅ △TUV. Which of the following are true?

a) TU = 13 cm
b) VT = 14 cm
c) UV = 13 cm
d) TU = 11 cm
e) UV = 11 cm
f) VT = 13 cm



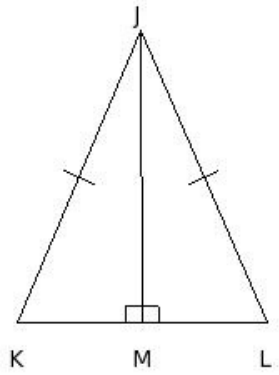
(i) {f,c,e} (ii) {a,b,e} (iii) {d,b} (iv) {d,a,b} (v) {c,a}

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



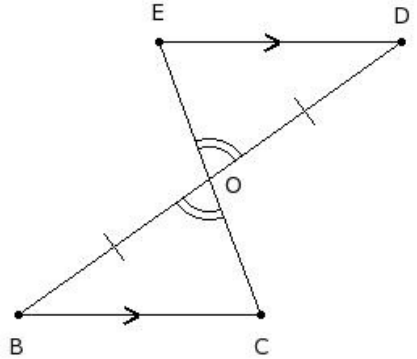
(i) △IKL ≅ △KIJ (ii) △IKL ≅ △IJK (iii) △ILK ≅ △IJK (iv) △IKL ≅ △IKJ (v) △ILK ≅ △JKI

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



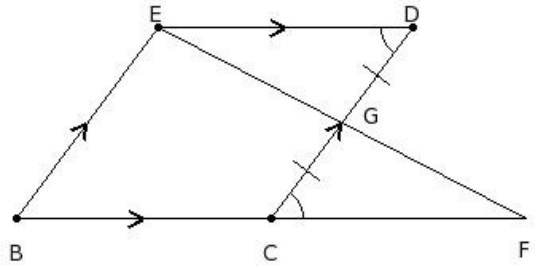
(i) SSS Congruency (ii) not congruent (iii) RHS Congruency (iv) SAS Congruency (v) ASA Congruency

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



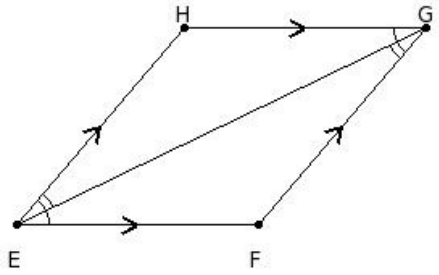
(i) SSS Congruency (ii) ASA Congruency (iii) not congruent (iv) RHS Congruency (v) SAS Congruency

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



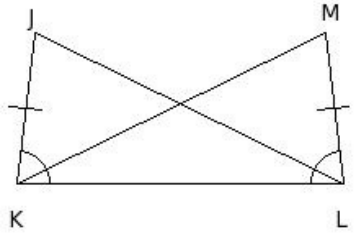
(i) ASA Congruency (ii) SSS Congruency (iii) SAS Congruency (iv) not congruent (v) RHS Congruency

17. With the given data in the figure, △EFG ≅ △GHE by which property?



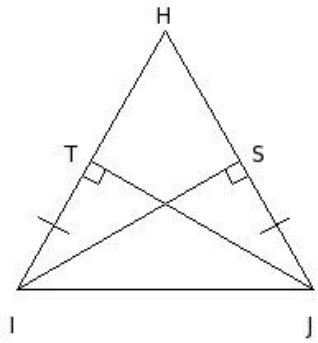
(i) RHS Congruency (ii) SSS Congruency (iii) SAS Congruency (iv) not congruent (v) ASA Congruency

18. With the given data in the figure, △JKL ≅ △MLK by which property?



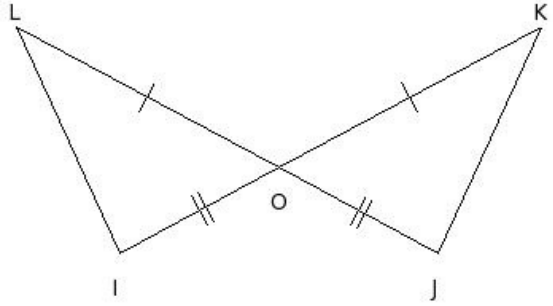
(i) not congruent (ii) SSS Congruency (iii) ASA Congruency (iv) RHS Congruency (v) SAS Congruency

19. With the given data in the figure, △TIJ ≅ △SJI by which property?



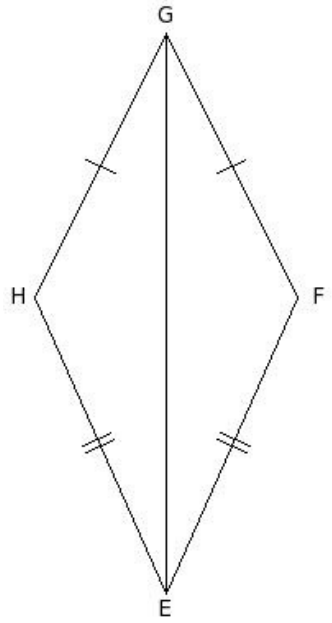
(i) ASA Congruency (ii) SAS Congruency (iii) not congruent (iv) SSS Congruency (v) RHS Congruency

20. With the data in the given figure, △ILO ≅ △JKO by which property?



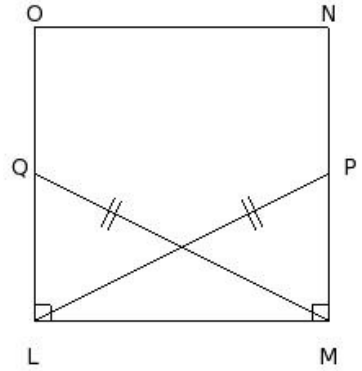
(i) not congruent (ii) ASA Congruency (iii) SAS Congruency (iv) SSS Congruency (v) RHS Congruency

21. With the data in the given figure, △EHG ≅ △EFG by which property?



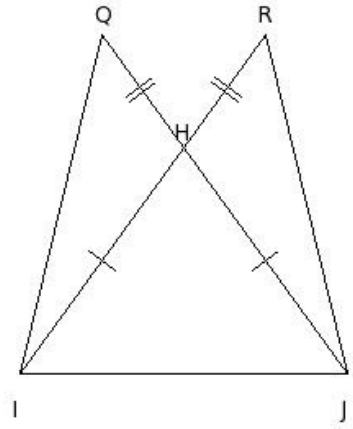
(i) SAS Congruency (ii) not congruent (iii) ASA Congruency (iv) SSS Congruency (v) RHS Congruency

22. With the data in the given figure, △QLM ≅ △PML by which property?



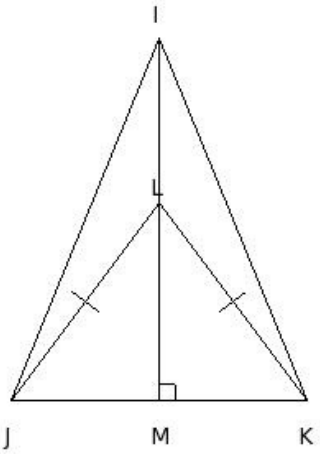
(i) RHS Congruency (ii) SSS Congruency (iii) SAS Congruency (iv) not congruent (v) ASA Congruency

23. With the data in the given figure, △QIJ ≅ △RJI by which property?



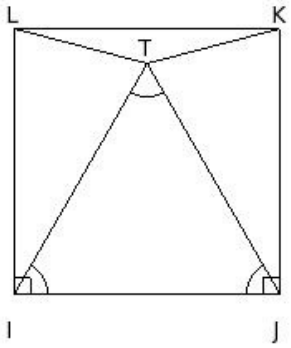
(i) RHS Congruency (ii) SAS Congruency (iii) SSS Congruency (iv) not congruent (v) ASA Congruency

24. In the given figure, △LJK is an isosceles triangle. IM ⊥ JK passing through L. △ILJ ≅ △ILK by which property?



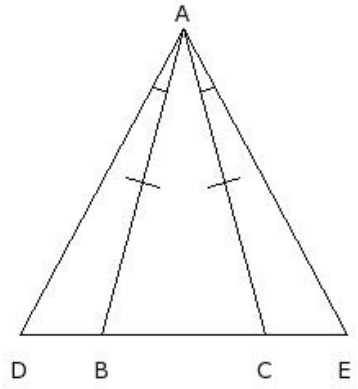
(i) RHS Congruency (ii) SSS Congruency (iii) ASA Congruency (iv) SAS Congruency (v) not congruent

25. In the given figure, IJKL is a square and △TIJ is an equilateral triangle. △TLI ≅ △TKJ by which property?



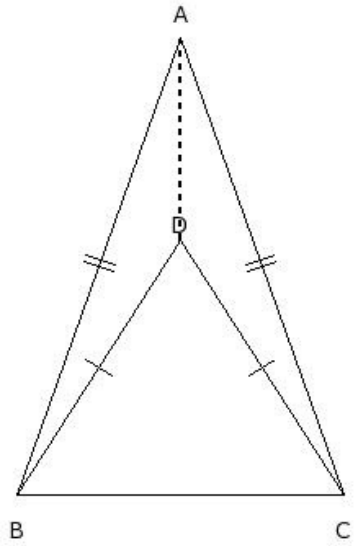
(i) ASA Congruency (ii) not congruent (iii) RHS Congruency (iv) SSS Congruency (v) SAS Congruency

26. With the data in the given figure, △ABD ≅ △ACE by which property?



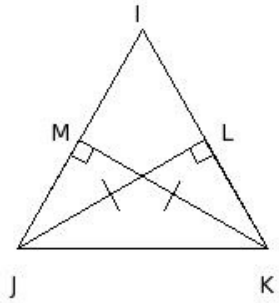
(i) RHS Congruency (ii) SSS Congruency (iii) SAS Congruency (iv) ASA Congruency (v) not congruent

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



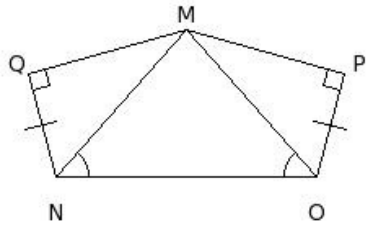
(i) ASA Congruency (ii) RHS Congruency (iii) SAS Congruency (iv) SSS Congruency (v) not congruent

28. With the data in the given figure, △JLK ≅ △KMJ by which property?



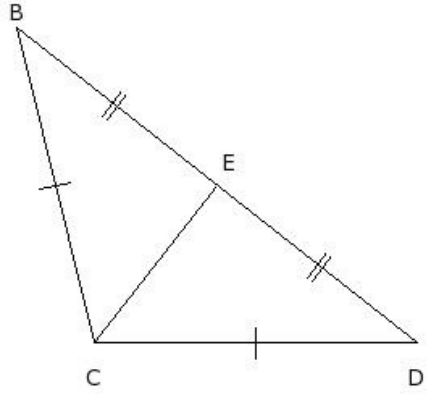
(i) RHS Congruency (ii) SAS Congruency (iii) SSS Congruency (iv) not congruent (v) ASA Congruency

29. With the data in the given figure, △MNQ ≅ △MOP by which property?



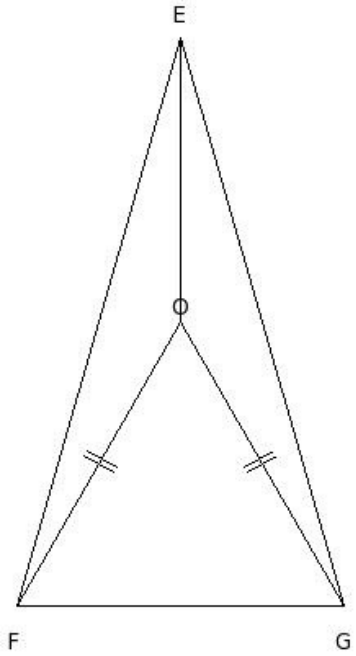
(i) ASA Congruency (ii) RHS Congruency (iii) SSS Congruency (iv) SAS Congruency (v) not congruent

30. In the given figure, △BCD is an obtuse angled triangle. △BCE ≅ △DCE by which property?



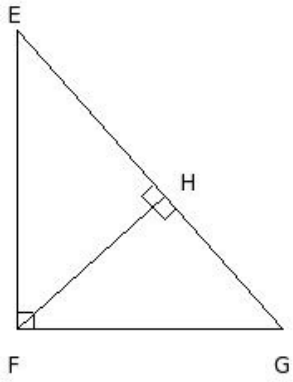
(i) ASA Congruency (ii) SAS Congruency (iii) not congruent (iv) SSS Congruency (v) RHS Congruency

31. With the data in the given figure, △EOF ≅ △EOG by which property?



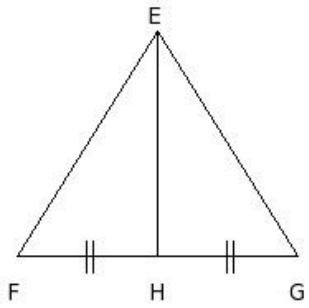
(i) not congruent (ii) ASA Congruency (iii) SAS Congruency (iv) RHS Congruency (v) SSS Congruency

32. With the data in the figure, △EHF ≅ △GHF by which property?



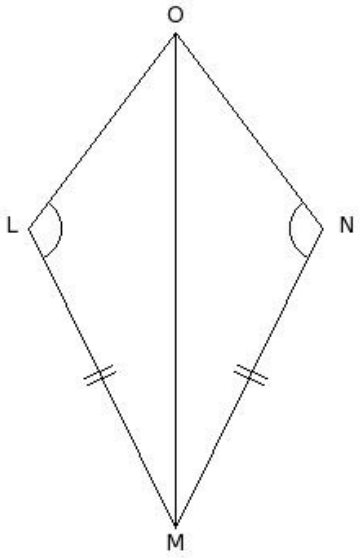
(i) SSS Congruency (ii) RHS Congruency (iii) not congruent (iv) ASA Congruency (v) SAS Congruency

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



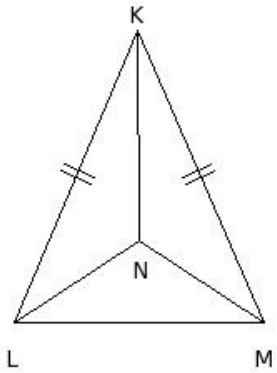
(i) SAS Congruency (ii) ASA Congruency (iii) RHS Congruency (iv) SSS Congruency (v) not congruent

34. With the data in the figure, △LOM ≅ △NOM by which property?



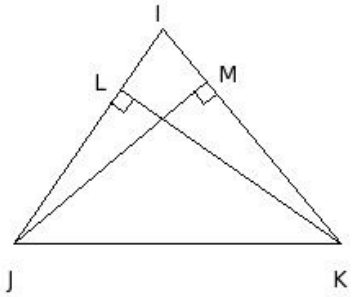
(i) SAS Congruency (ii) RHS Congruency (iii) ASA Congruency (iv) SSS Congruency (v) not congruent

35. With the data in the figure, △KLN ≅ △KMN by which property?



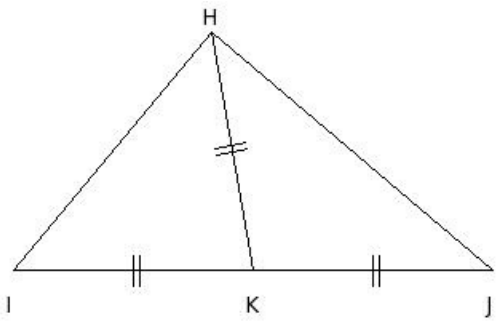
(i) SSS Congruency (ii) ASA Congruency (iii) SAS Congruency (iv) RHS Congruency (v) not congruent

36. With the data in the figure, △JMK ≅ △KLJ by which property?



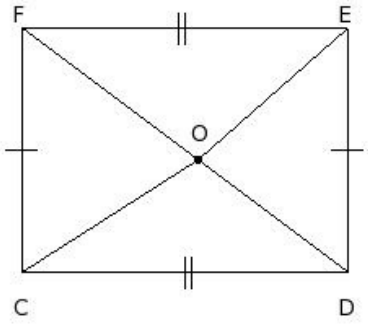
(i) RHS Congruency (ii) not congruent (iii) SSS Congruency (iv) ASA Congruency (v) SAS Congruency

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



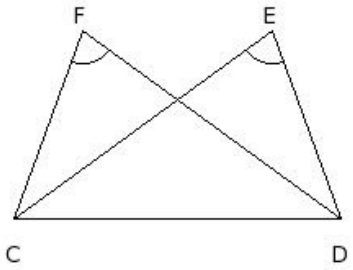
(i) ASA Congruency (ii) SSS Congruency (iii) SAS Congruency (iv) RHS Congruency (v) not congruent

38. With the data in the figure, △COD ≅ △FOE by which property?



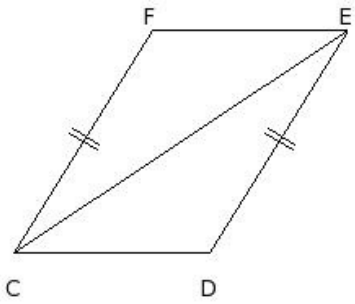
(i) ASA Congruency (ii) RHS Congruency (iii) SAS Congruency (iv) SSS Congruency (v) not congruent

39. With the data in the figure, △CDF ≅ △DCE by which property?



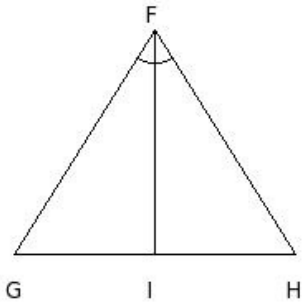
(i) SSS Congruency (ii) not congruent (iii) SAS Congruency (iv) RHS Congruency (v) ASA Congruency

40. With the data in the figure, △CEF ≅ △ECD by which property?



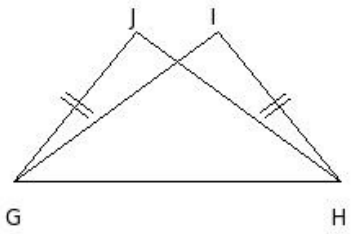
(i) SSS Congruency (ii) ASA Congruency (iii) SAS Congruency (iv) RHS Congruency (v) not congruent

41. With the data in the figure, △FIG ≅ △FIH by which property?



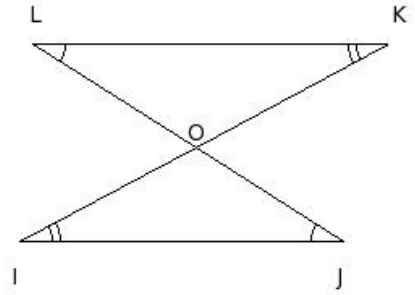
(i) SSS Congruency (ii) SAS Congruency (iii) RHS Congruency (iv) not congruent (v) ASA Congruency

42. With the data in the figure, △GJH ≅ △HIG by which property?



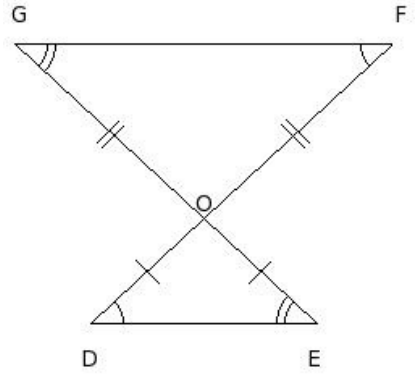
(i) not congruent (ii) ASA Congruency (iii) SAS Congruency (iv) RHS Congruency (v) SSS Congruency

43. With the data in the figure, △IOJ ≅ △KOL by which property?



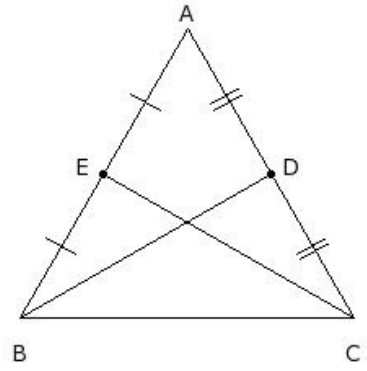
(i) ASA Congruency (ii) not congruent (iii) SAS Congruency (iv) SSS Congruency (v) RHS Congruency

44. With the data in the figure, △DOE ≅ △FOG by which property?



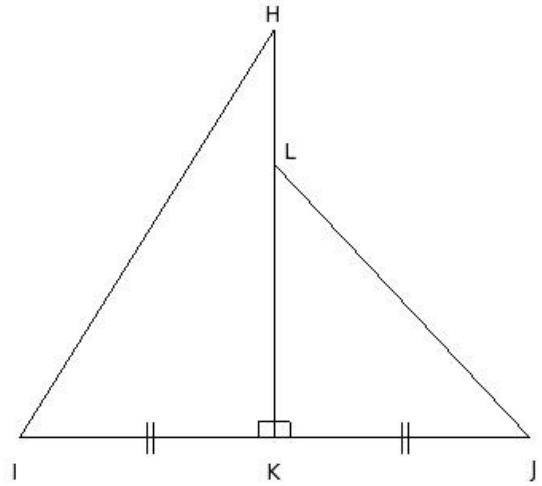
(i) SAS Congruency (ii) not congruent (iii) ASA Congruency (iv) SSS Congruency (v) RHS Congruency

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



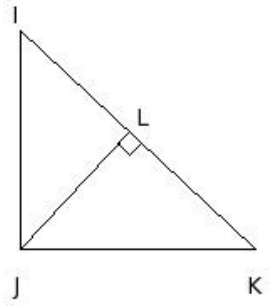
(i) SSS Congruency (ii) RHS Congruency (iii) ASA Congruency (iv) SAS Congruency (v) not congruent

46. With the data in the figure, △HIK ≅ △LJK by which property?



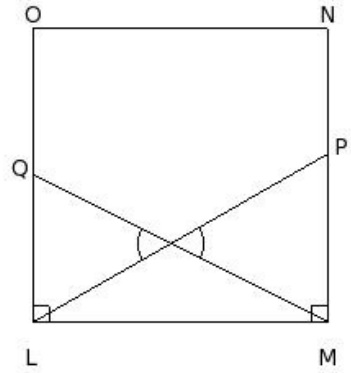
(i) SAS Congruency (ii) SSS Congruency (iii) RHS Congruency (iv) ASA Congruency (v) not congruent

47. With the data in the figure, △IJL ≅ △KJL by which property?



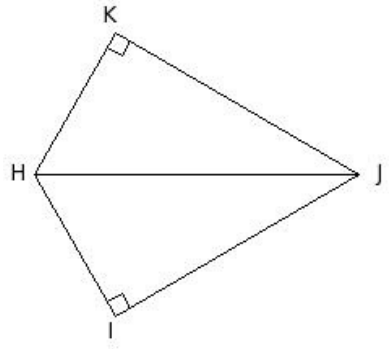
(i) RHS Congruency (ii) SAS Congruency (iii) not congruent (iv) ASA Congruency (v) SSS Congruency

48. With the data in the figure, △LMP ≅ △MLQ by which property?



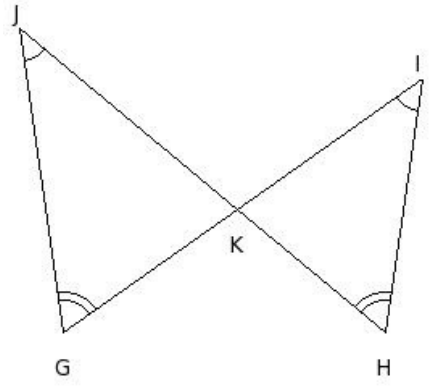
(i) RHS Congruency (ii) SAS Congruency (iii) SSS Congruency (iv) ASA Congruency (v) not congruent

49. With the data in the figure, △HJK ≅ △HJI by which property?



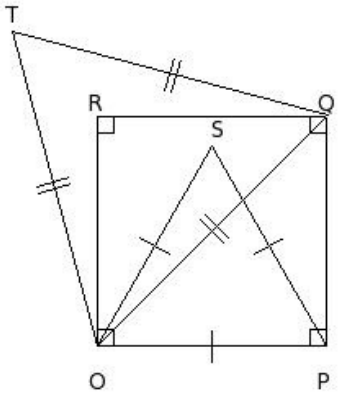
(i) RHS Congruency (ii) ASA Congruency (iii) not congruent (iv) SSS Congruency (v) SAS Congruency

50. With the data in the figure, △GKJ ≅ △HKI by which property?



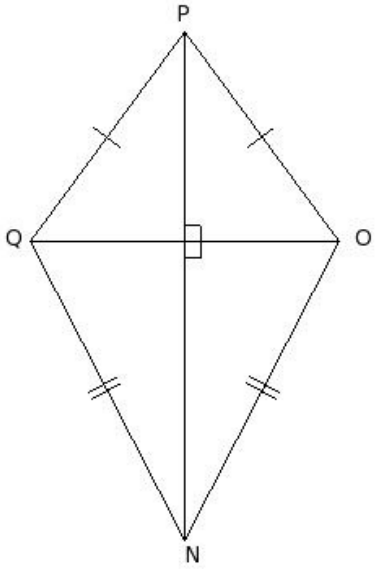
(i) SSS Congruency (ii) RHS Congruency (iii) not congruent (iv) SAS Congruency (v) ASA Congruency

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



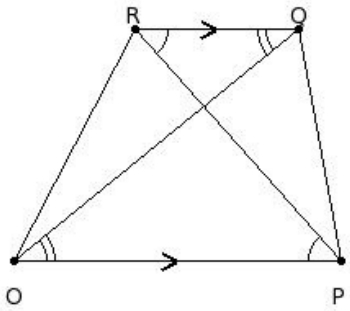
(i) SAS Congruency (ii) RHS Congruency (iii) not congruent (iv) SSS Congruency (v) ASA Congruency

52. With the data in the given figure, △NOQ ≅ △POQ by which property?



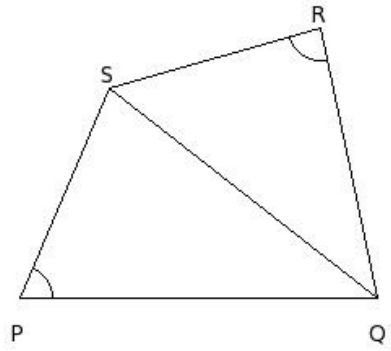
(i) SAS Congruency (ii) SSS Congruency (iii) not congruent (iv) ASA Congruency (v) RHS Congruency

53. With the data in the given figure, △OPR ≅ △POQ by which property?



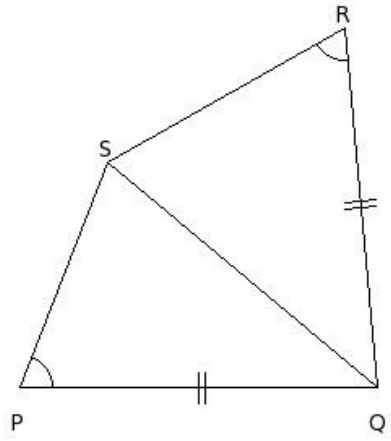
(i) RHS Congruency (ii) SAS Congruency (iii) ASA Congruency (iv) SSS Congruency (v) not congruent

54. With the data in the given figure, △PQS ≅ △RSQ by which property?



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

55. With the data in the given figure, △PQS ≅ △RQS by which property?



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

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

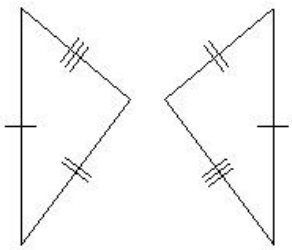


fig 3

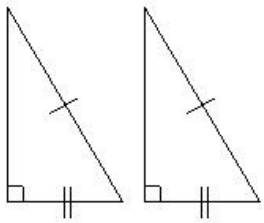


fig 4

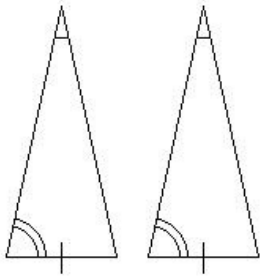


fig 1

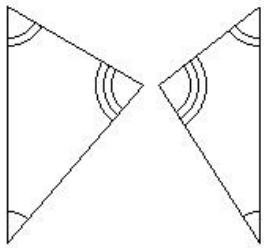


fig 2

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

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

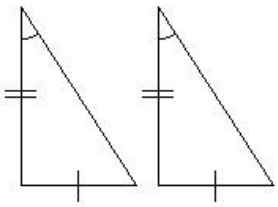


fig 3

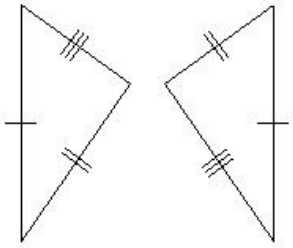


fig 4

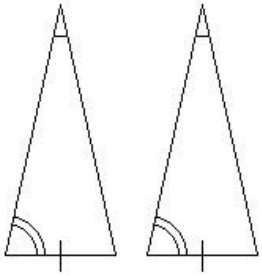


fig 1

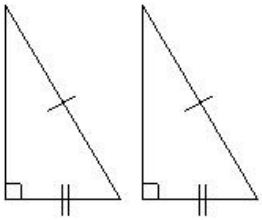


fig 2

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

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

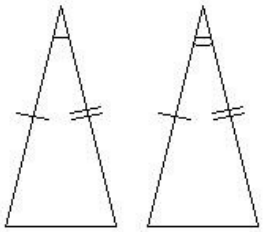


fig 3

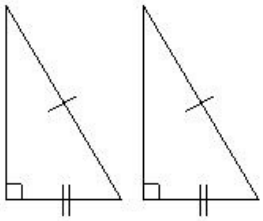


fig 4

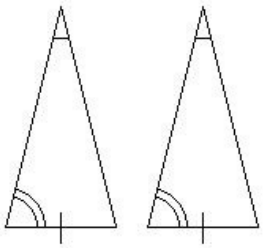


fig 1

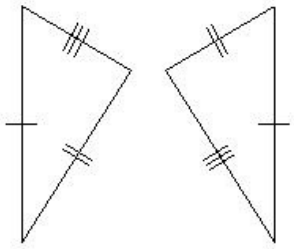


fig 2

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

Assignment Key

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