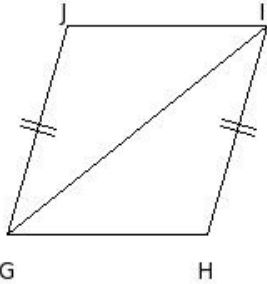


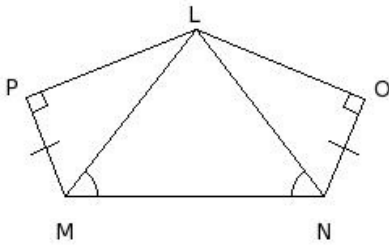


1. With the data in the figure, $\triangle GIJ \cong \triangle IGH$ by which property?



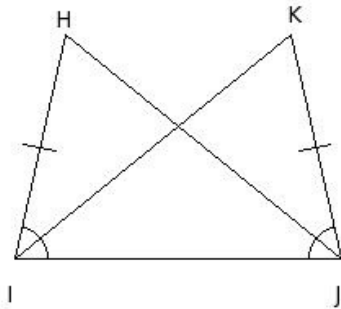
- (i) not congruent (ii) SSS Congruency (iii) RHS Congruency (iv) SAS Congruency (v) ASA Congruency

2. With the data in the given figure, $\triangle LMP \cong \triangle LNO$ by which property?



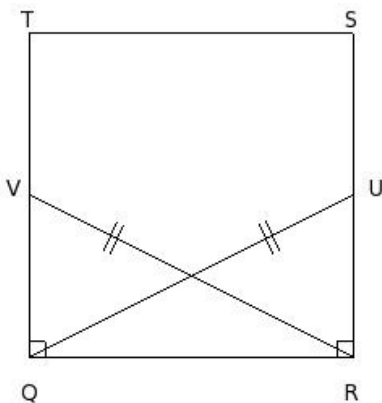
- (i) SAS Congruency (ii) ASA Congruency (iii) RHS Congruency (iv) not congruent (v) SSS Congruency

3. With the given data in the figure, $\triangle HIJ \cong \triangle KJI$ by which property?



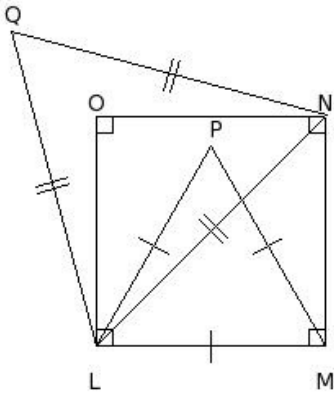
- (i) SSS Congruency (ii) not congruent (iii) SAS Congruency (iv) RHS Congruency (v) ASA Congruency

4. With the data in the given figure, $\triangle VQR \cong \triangle URQ$ by which property?



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

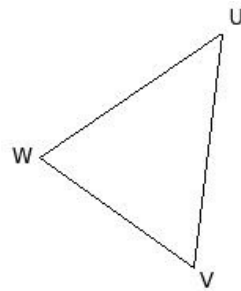
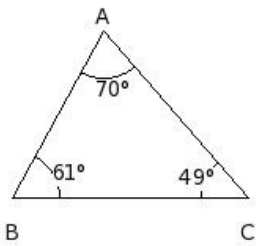
5. With the data in the figure, $\triangle LMP \cong \triangle LNQ$ by which property?



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

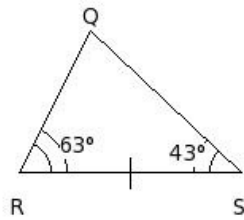
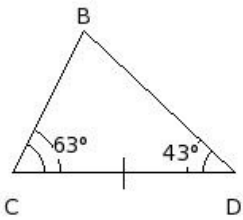
6. In the given figure, $\triangle ABC \cong \triangle WVU$. Which of the following are true?

- a) $\angle V = 49^\circ$
 b) $\angle U = 49^\circ$
 c) $\angle V = 61^\circ$
 d) $\angle U = 70^\circ$
 e) $\angle W = 70^\circ$
 f) $\angle W = 61^\circ$



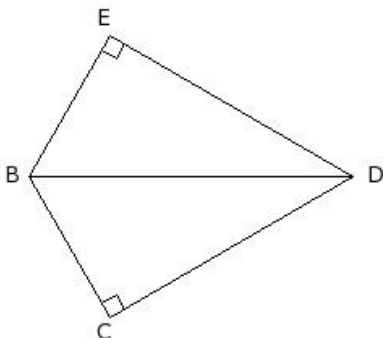
- (i) {d,c} (ii) {f,a,e} (iii) {d,b,c} (iv) {a,b} (v) {b,c,e}

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



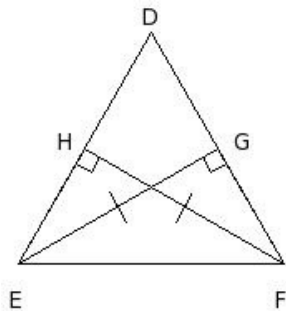
- (i) ASA Congruency (ii) RHS Congruency (iii) SAS Congruency (iv) SSS Congruency

8. With the data in the figure, $\triangle BDE \cong \triangle BDC$ by which property?



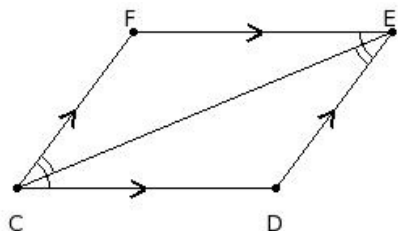
- (i) SSS Congruency (ii) not congruent (iii) ASA Congruency (iv) SAS Congruency (v) RHS Congruency

9. With the data in the given figure, $\triangle EGF \cong \triangle FHE$ by which property?



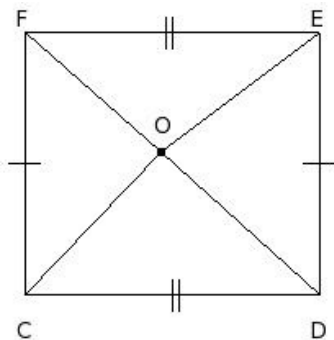
- (i) SAS Congruency (ii) RHS Congruency (iii) ASA Congruency (iv) SSS Congruency (v) not congruent

10. With the given data in the figure, $\triangle CDE \cong \triangle EFC$ by which property?



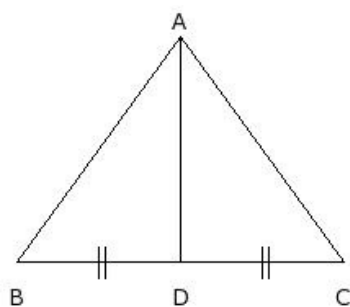
- (i) RHS Congruency (ii) SSS Congruency (iii) not congruent (iv) ASA Congruency (v) SAS Congruency

11. With the data in the figure, $\triangle COD \cong \triangle FOE$ by which property?



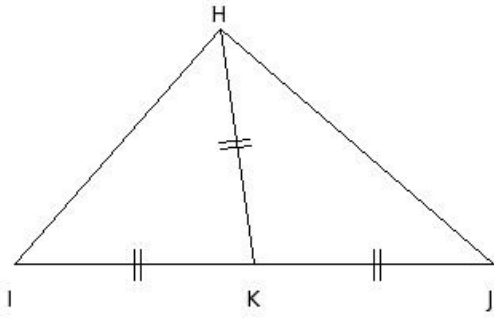
- (i) RHS Congruency (ii) not congruent (iii) ASA Congruency (iv) SSS Congruency (v) SAS Congruency

12. With the data in the figure, $\triangle ADB \cong \triangle ADC$ by which property?



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

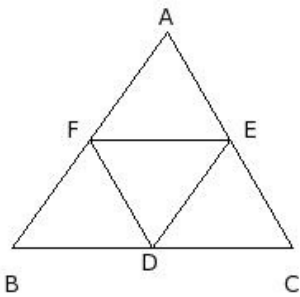
13. With the data in the figure, $\triangle HKI \cong \triangle HKJ$ by which property?



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

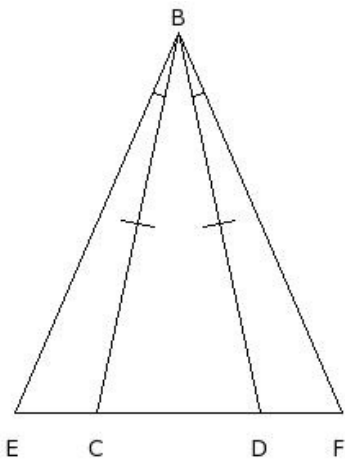
14. In the given figure, points D, E and F are the mid-points of sides BC, CA and AB of $\triangle ABC$. Which of the following are true?

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



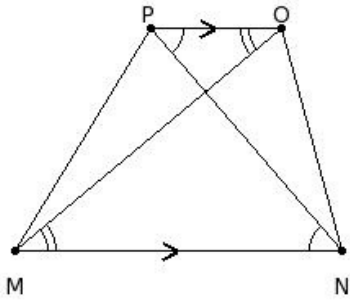
- (i) {b,a} (ii) {b,a,d} (iii) {a,d,e} (iv) {c,d} (v) {b,c,e}

15. With the data in the given figure, $\triangle BCE \cong \triangle BDF$ by which property?



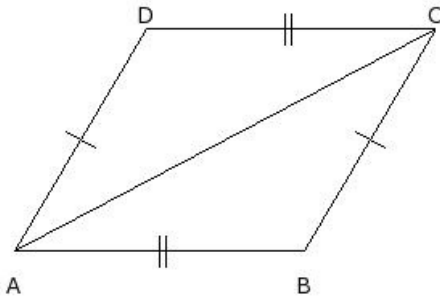
- (i) not congruent (ii) RHS Congruency (iii) ASA Congruency (iv) SAS Congruency (v) SSS Congruency

16. With the data in the given figure, $\triangle MNP \cong \triangle NMO$ by which property?



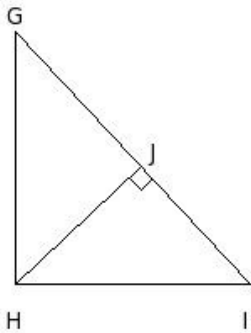
- (i) ASA Congruency (ii) SAS Congruency (iii) RHS Congruency (iv) not congruent (v) SSS Congruency

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



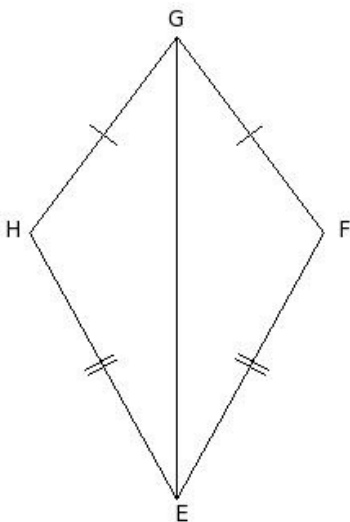
- (i) $\triangle ACD \cong \triangle ACB$ (ii) $\triangle ADC \cong \triangle ABC$ (iii) $\triangle ACD \cong \triangle CAB$ (iv) $\triangle ACD \cong \triangle ABC$ (v) $\triangle ADC \cong \triangle BCA$

18. With the data in the figure, $\triangle GHJ \cong \triangle IHJ$ by which property?



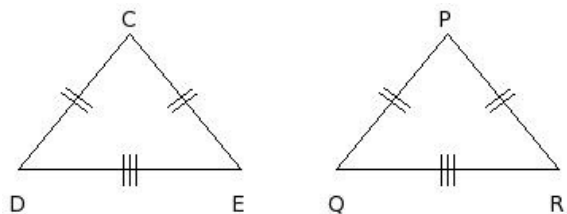
- (i) not congruent (ii) ASA Congruency (iii) SSS Congruency (iv) RHS Congruency (v) SAS Congruency

19. With the data in the given figure, $\triangle EHG \cong \triangle EFG$ by which property?



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

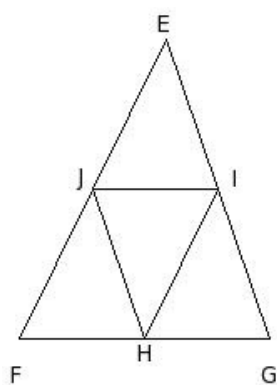
20. Identify the property by which the two given triangles are congruent



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

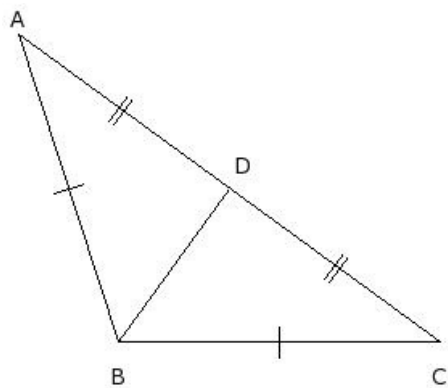
21. In the given figure, points H, I and J are the mid-points of sides FG, GE and EF of $\triangle EFG$. Which of the following are true?

- a) $\triangle JFH \cong \triangle EJI$
 b) $\triangle JFH \cong \triangle HIJ$
 c) $\triangle EJI \cong \triangle IHG$
 d) $\triangle EJI \cong \triangle HIJ$
 e) $\triangle EJI \cong \triangle HJI$



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

22. In the given figure, $\triangle ABC$ is an obtuse angled triangle. $\triangle ABD \cong \triangle CBD$ by which property?



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

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

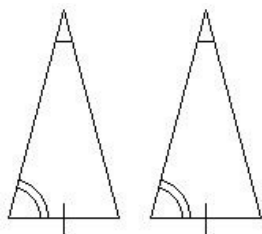


fig 3

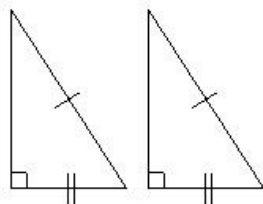


fig 4

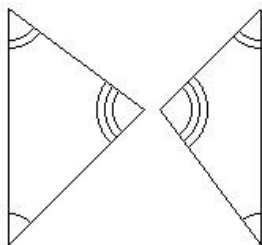


fig 1

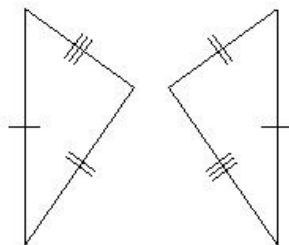
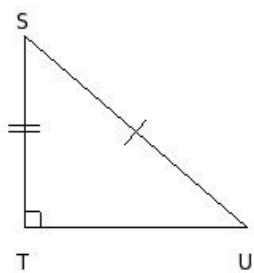
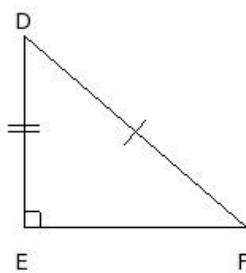


fig 2

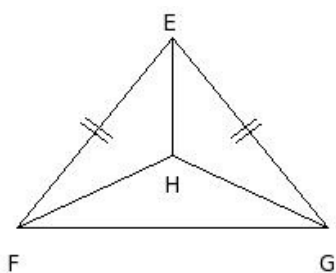
- (i) fig 3 (ii) fig 2 (iii) fig 4 (iv) fig 1

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



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

25. With the data in the figure, $\triangle EFH \cong \triangle EGH$ by which property?



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

Assignment Key

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