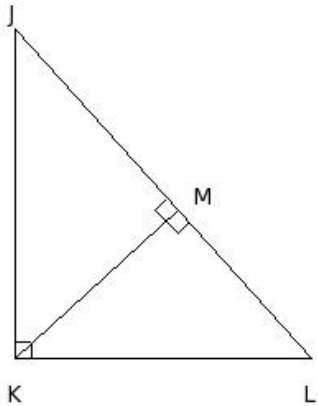


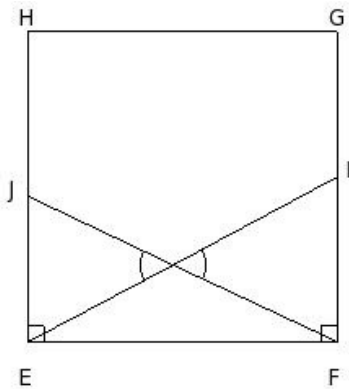


1. With the data in the figure, $\triangle JMK \cong \triangle LMK$ by which property?



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

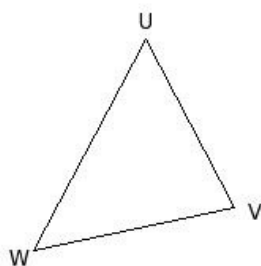
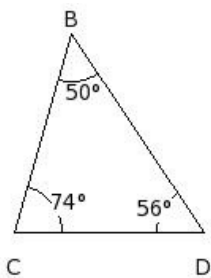
2. With the data in the figure, $\triangle EFI \cong \triangle FEJ$ by which property?



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

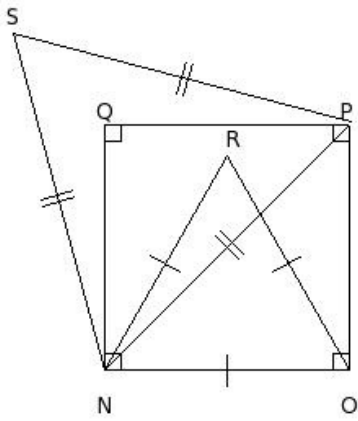
3. In the given figure, $\triangle BCD \cong \triangle WVU$. Which of the following are true?

- a) $\angle W = 74^\circ$
- b) $\angle V = 74^\circ$
- c) $\angle U = 50^\circ$
- d) $\angle W = 50^\circ$
- e) $\angle U = 56^\circ$
- f) $\angle V = 56^\circ$



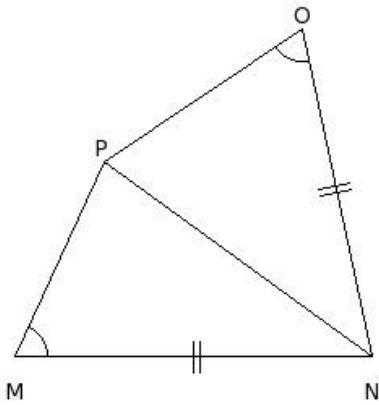
- (i) {a,b} (ii) {f,a,e} (iii) {c,b,d} (iv) {c,d} (v) {b,d,e}

4. With the data in the figure, $\triangle NOR \cong \triangle NPS$ by which property?



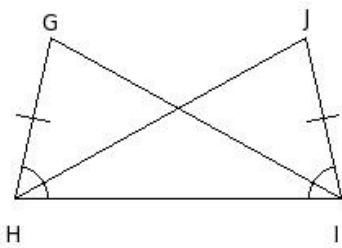
- (i) SSS Congruency (ii) not congruent (iii) RHS Congruency (iv) ASA Congruency (v) SAS Congruency

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



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

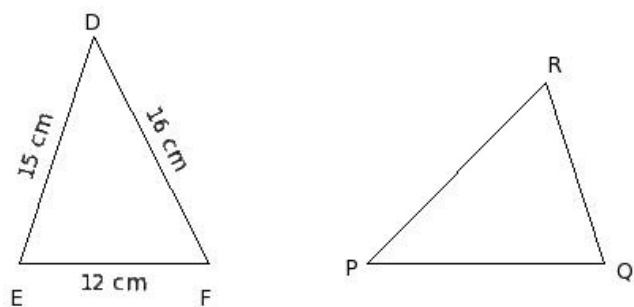
6. With the given data in the figure, $\triangle GHI \cong \triangle JIH$ by which property?



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

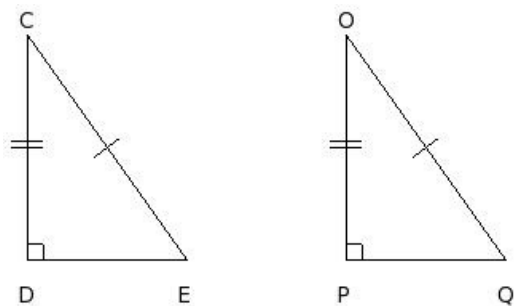
7. In the given figure, $\triangle DEF \cong \triangle PQR$. Which of the following are true?

- a) $QR = 15$ cm
- b) $PQ = 12$ cm
- c) $QR = 12$ cm
- d) $PQ = 15$ cm
- e) $RP = 15$ cm
- f) $RP = 16$ cm



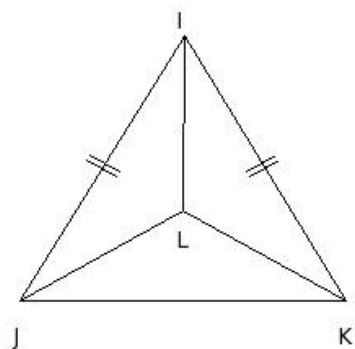
- (i) {e,a,f} (ii) {a,c} (iii) {b,d} (iv) {b,c,d} (v) {c,d,f}

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



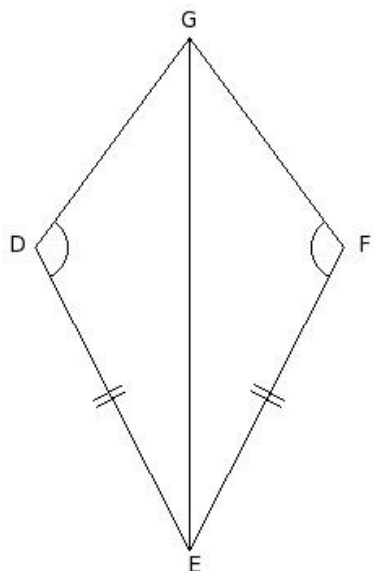
- (i) RHS Congruency (ii) ASA Congruency (iii) SSS Congruency (iv) SAS Congruency

9. With the data in the figure, $\triangle IJL \cong \triangle IKL$ by which property?



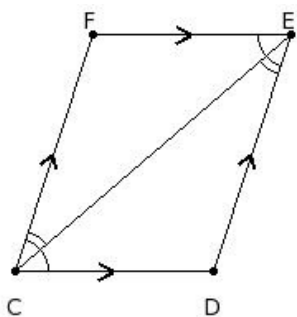
- (i) SAS Congruency (ii) SSS Congruency (iii) not congruent (iv) ASA Congruency (v) RHS Congruency

10. With the data in the figure, $\triangle DGE \cong \triangle FGE$ by which property?



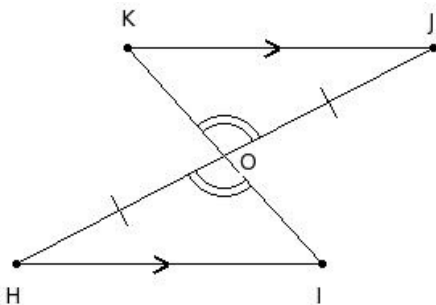
- (i) not congruent (ii) ASA Congruency (iii) SAS Congruency (iv) SSS Congruency (v) RHS Congruency

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



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

12. With the data in the given figure, $\triangle OKJ \cong \triangle OIH$ by which property?

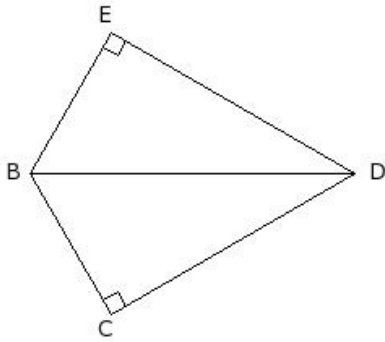


- (i) ASA Congruency (ii) SSS Congruency (iii) not congruent (iv) SAS Congruency (v) RHS Congruency

13. Which of the following are true?

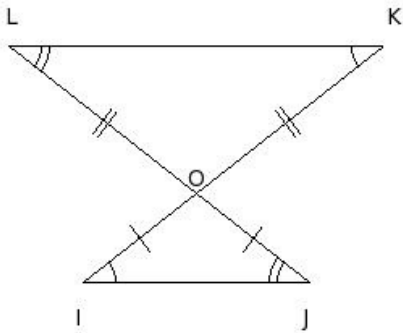
- a) If two figures are congruent, then they are similar too.
 - b) Similar and congruent are not synonymous.
 - c) Congruent figures have same area.
 - d) If two figures are similar, then they are congruent too.
 - e) Similar figures have same area.
- (i) {a,b,c} (ii) {d,a,b} (iii) {d,e,c} (iv) {d,a} (v) {e,b}

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



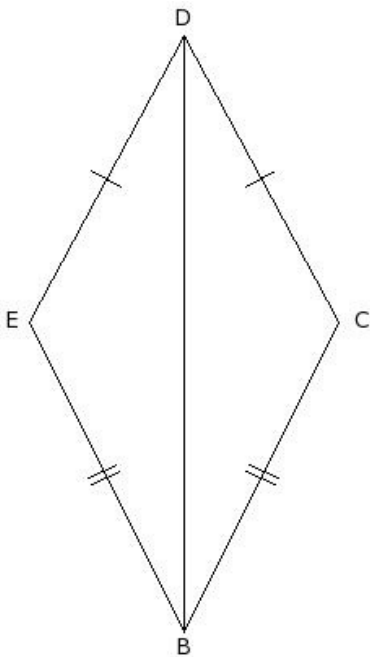
- (i) not congruent (ii) SSS Congruency (iii) ASA Congruency (iv) SAS Congruency (v) RHS Congruency

15. With the data in the figure, $\triangle IOJ \cong \triangle KOL$ by which property?



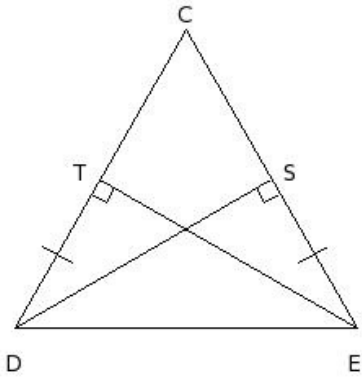
- (i) not congruent (ii) SSS Congruency (iii) ASA Congruency (iv) SAS Congruency (v) RHS Congruency

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



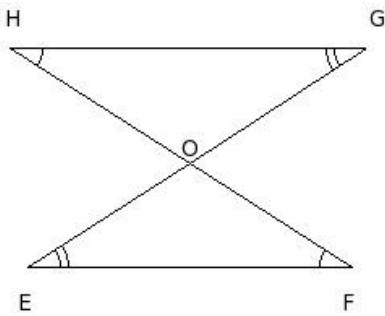
- (i) not congruent (ii) RHS Congruency (iii) SSS Congruency (iv) ASA Congruency (v) SAS Congruency

17. With the given data in the figure, $\triangle TDE \cong \triangle SED$ by which property?



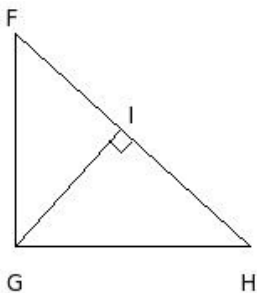
- (i) not congruent (ii) ASA Congruency (iii) RHS Congruency (iv) SAS Congruency (v) SSS Congruency

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



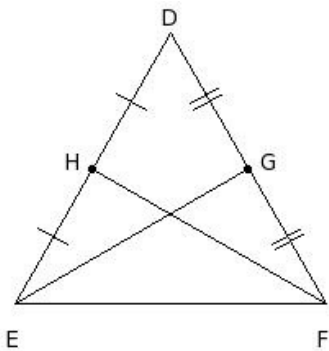
- (i) ASA Congruency (ii) SAS Congruency (iii) RHS Congruency (iv) SSS Congruency (v) not congruent

19. With the data in the figure, $\triangle FGI \cong \triangle HGI$ by which property?



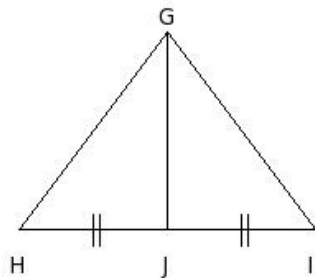
- (i) ASA Congruency (ii) SSS Congruency (iii) not congruent (iv) RHS Congruency (v) SAS Congruency

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



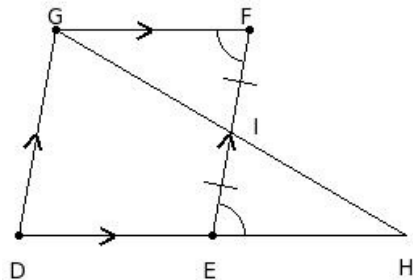
- (i) SAS Congruency (ii) not congruent (iii) ASA Congruency (iv) SSS Congruency (v) RHS Congruency

21. With the data in the figure, $\triangle GJH \cong \triangle GJI$ by which property?



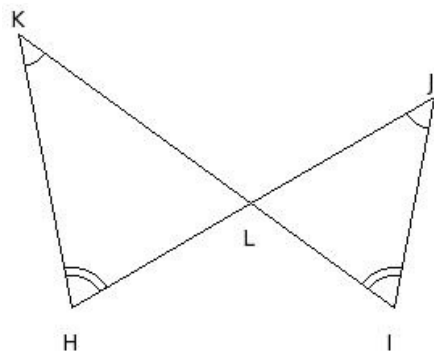
- (i) SAS Congruency (ii) SSS Congruency (iii) RHS Congruency (iv) ASA Congruency (v) not congruent

22. With the given data in the figure, $\triangle GFI \cong \triangle HEI$ by which property?



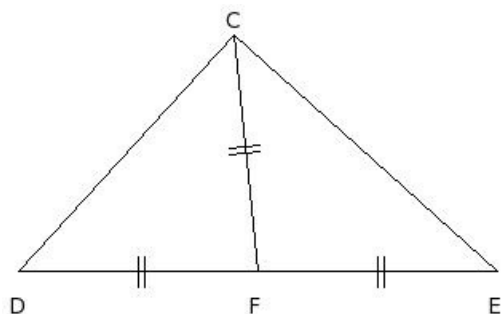
- (i) SAS Congruency (ii) ASA Congruency (iii) not congruent (iv) SSS Congruency (v) RHS Congruency

23. With the data in the figure, $\triangle HLK \cong \triangle ILJ$ by which property?



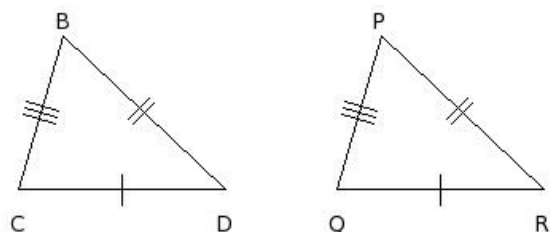
- (i) SAS Congruency (ii) SSS Congruency (iii) RHS Congruency (iv) ASA Congruency (v) not congruent

24. With the data in the figure, $\triangle CFD \cong \triangle CFE$ by which property?



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

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



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

Assignment Key

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