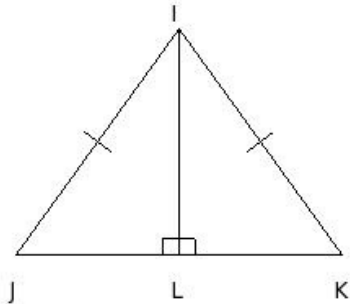


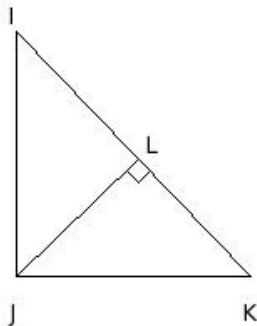


1. With the data in the given figure, $\triangle IJL \cong \triangle IKL$ by which property?



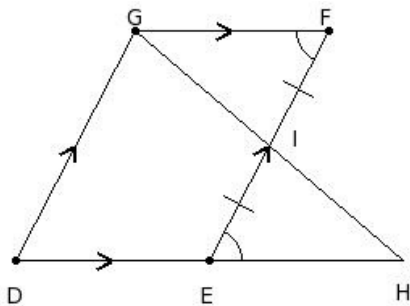
- (i) not congruent (ii) SAS Congruency (iii) RHS Congruency (iv) ASA Congruency (v) SSS Congruency

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



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

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



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

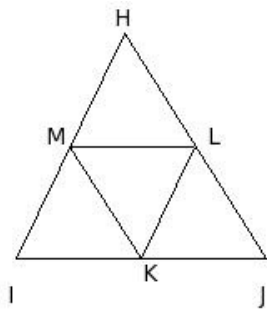
4. Which of the following are true?

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

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

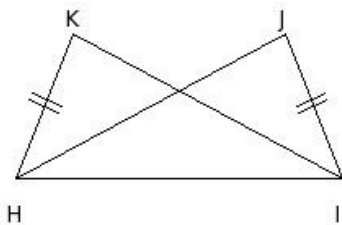
5. In the given figure, points K, L and M are the mid-points of sides IJ, JH and HI of $\triangle HIJ$. Which of the following are true?

- a) $\triangle MIK \cong \triangle HML$
- b) $\triangle HML \cong \triangle KML$
- c) $\triangle HML \cong \triangle LKJ$
- d) $\triangle MIK \cong \triangle KLM$
- e) $\triangle HML \cong \triangle KLM$



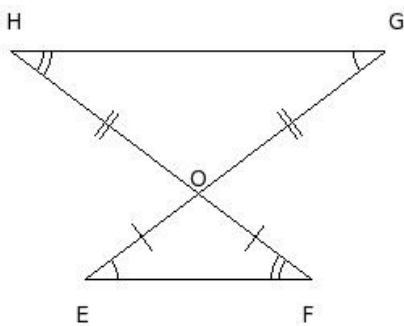
- (i) {b,c} (ii) {a,c,d,e} (iii) {b,d} (iv) {b,e,a} (v) {b,a}

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



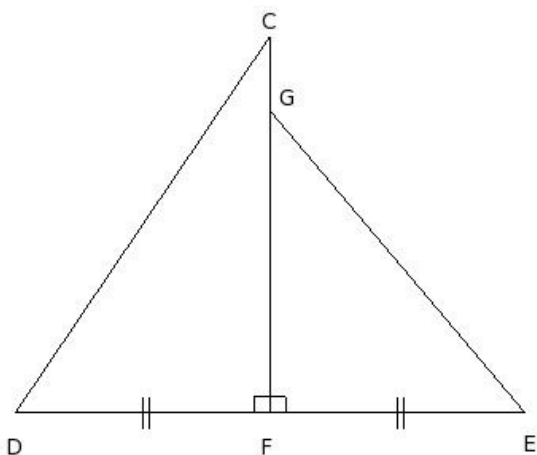
- (i) SAS Congruency (ii) ASA Congruency (iii) not congruent (iv) SSS Congruency (v) RHS Congruency

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



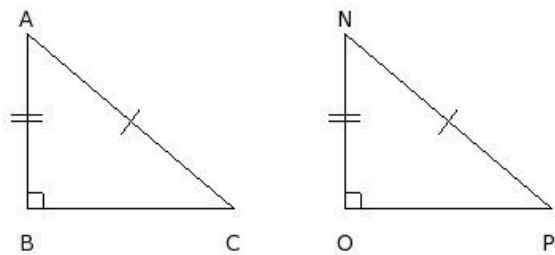
- (i) ASA Congruency (ii) RHS Congruency (iii) SAS Congruency (iv) not congruent (v) SSS Congruency

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



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

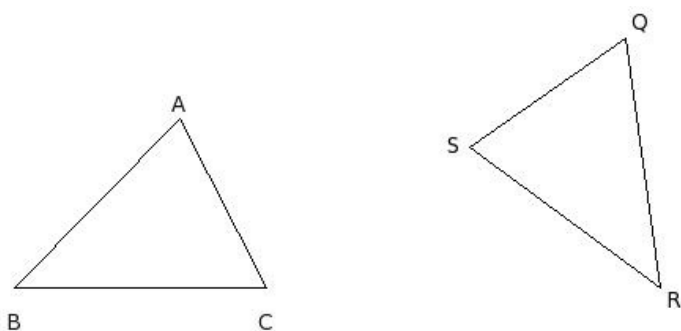
9. Identify the property by which the two given triangles are congruent



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

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

- a) $BC = RQ$
- b) $BC = SR$
- c) $\angle B = \angle R$
- d) $\angle A = \angle Q$
- e) $\angle C = \angle Q$



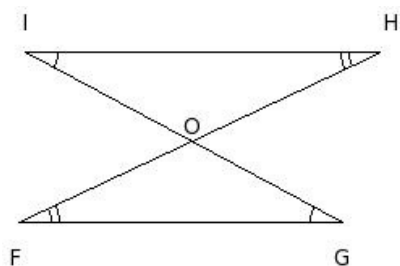
- (i) $\{b,a\}$ (ii) $\{b,a,c\}$ (iii) $\{a,c,e\}$ (iv) $\{b,d,e\}$ (v) $\{d,c\}$

11. Which of the following are true?

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

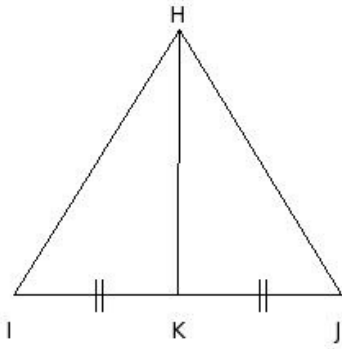
- (i) $\{c,e\}$ (ii) $\{a,c\}$ (iii) $\{a,e,c\}$ (iv) $\{d,f,c\}$ (v) $\{b,e\}$

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



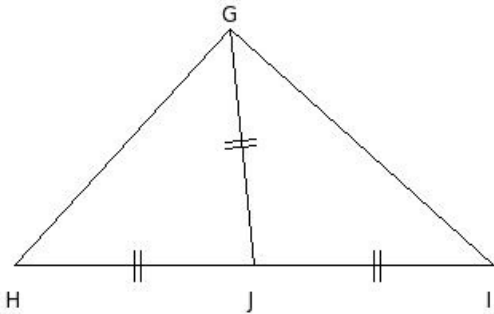
- (i) ASA Congruency (ii) SSS Congruency (iii) SAS Congruency (iv) not congruent (v) RHS Congruency

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



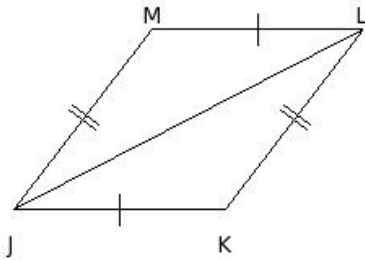
- (i) SSS Congruency (ii) ASA Congruency (iii) not congruent (iv) RHS Congruency (v) SAS Congruency

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



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

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



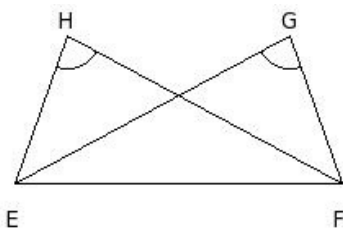
- (i) $\triangle JLM \cong \triangle JLK$ (ii) $\triangle JLM \cong \triangle JKL$ (iii) $\triangle JLM \cong \triangle LJK$ (iv) $\triangle JML \cong \triangle JKL$ (v) $\triangle JML \cong \triangle KLJ$

16. Which of the following are true?

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

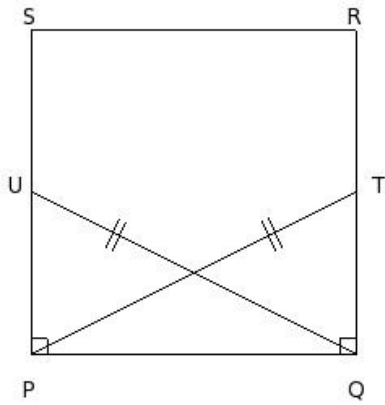
- (i) {b,d} (ii) {b,d,c} (iii) {a,c} (iv) {c,d} (v) {e,a,c}

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



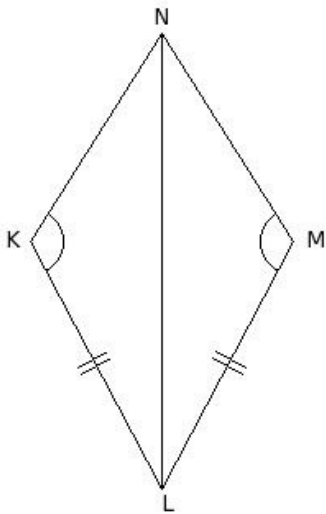
- (i) ASA Congruency (ii) not congruent (iii) RHS Congruency (iv) SAS Congruency (v) SSS Congruency

18. With the data in the given figure, $\triangle UPQ \cong \triangle TQP$ by which property?



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

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



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

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

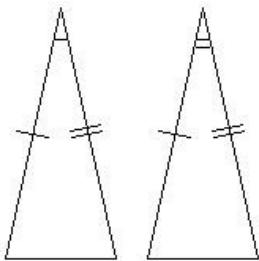


fig 3

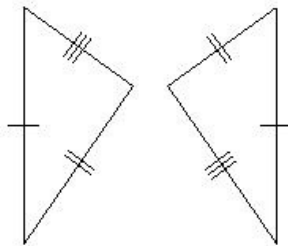


fig 4

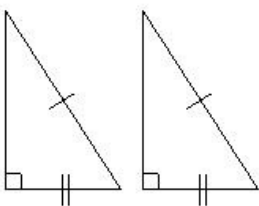


fig 1

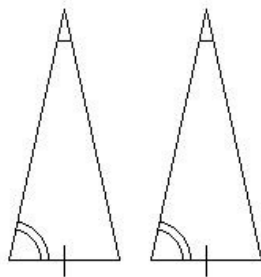
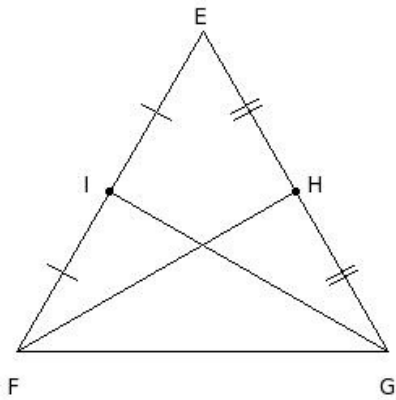


fig 2

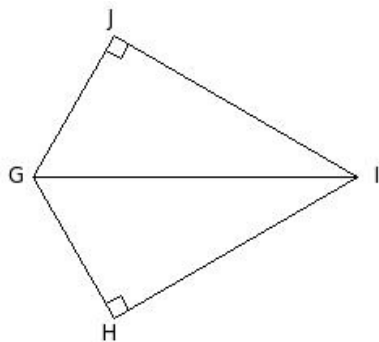
- (i) fig 4 (ii) fig 2 (iii) fig 3 (iv) fig 1

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



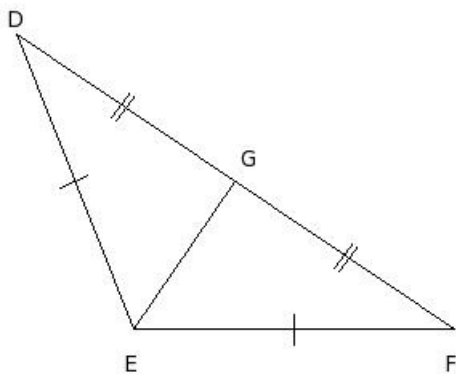
- (i) SSS Congruency (ii) RHS Congruency (iii) ASA Congruency (iv) not congruent (v) SAS Congruency

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



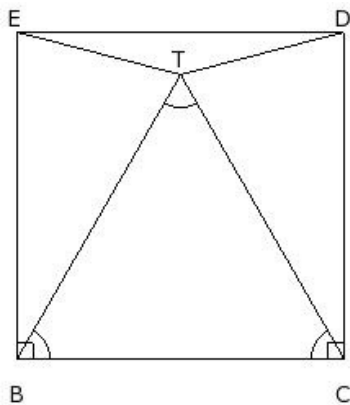
- (i) RHS Congruency (ii) SSS Congruency (iii) SAS Congruency (iv) not congruent (v) ASA Congruency

23. In the given figure, $\triangle DEF$ is an obtuse angled triangle. $\triangle DEG \cong \triangle FEG$ by which property?



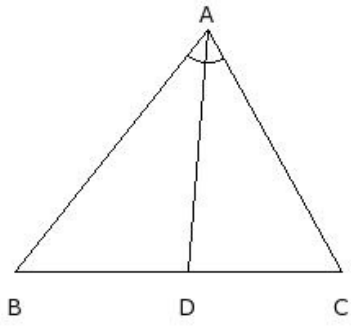
- (i) ASA Congruency (ii) RHS Congruency (iii) SAS Congruency (iv) SSS Congruency (v) not congruent

24. In the given figure, BCDE is a square and $\triangle TBC$ is an equilateral triangle. $\triangle TEB \cong \triangle TDC$ by which property?



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

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



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

Assignment Key

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