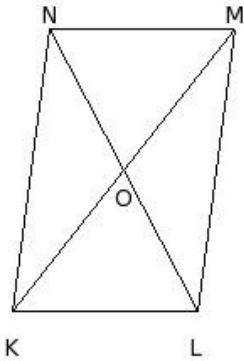


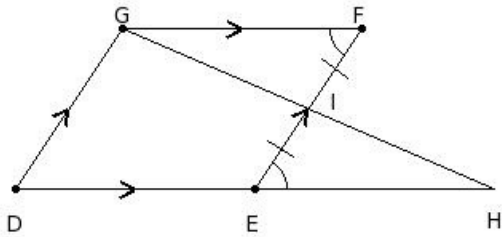


1. In parallelogram KLMN, diagonals \overline{LN} and \overline{KM} intersect at O. Then $\triangle MNK \cong$



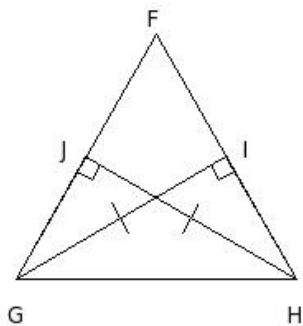
- (i) $\triangle KLM$ (ii) $\triangle NKL$ (iii) $\triangle LMN$ (iv) $\triangle MNO$ (v) $\triangle KLO$

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



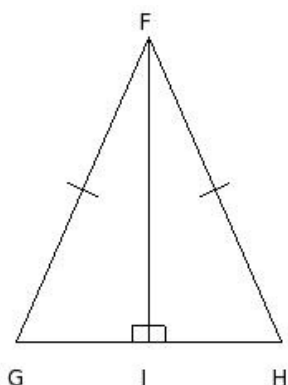
- (i) ASA Congruency (ii) not congruent (iii) RHS Congruency (iv) SAS Congruency (v) SSS Congruency

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



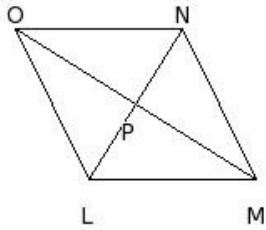
- (i) ASA Congruency (ii) SSS Congruency (iii) RHS Congruency (iv) not congruent (v) SAS Congruency

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



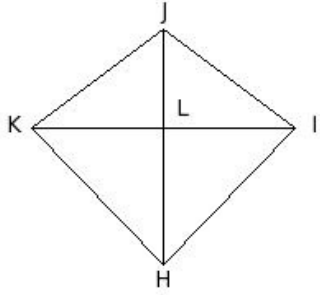
- (i) ASA Congruency (ii) SAS Congruency (iii) RHS Congruency (iv) not congruent (v) SSS Congruency

5. In rhombus LMNO, diagonals \overline{LN} and \overline{MO} intersect at P. Then $\triangle MNO \cong$



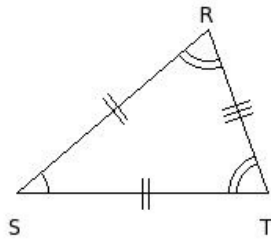
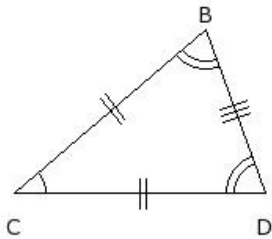
- (i) $\triangle LMN$ (ii) $\triangle NOL$ (iii) $\triangle OLM$ (iv) $\triangle PLM$

6. In kite HIJK, \overline{HJ} and \overline{IK} are diagonals. Then $\triangle LJK \cong$



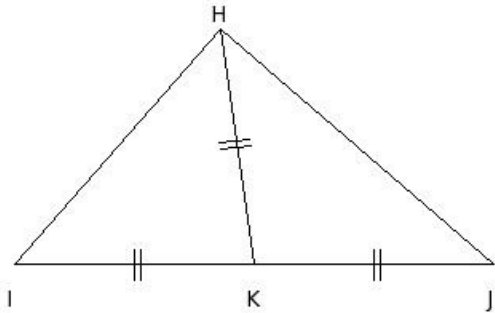
- (i) $\triangle LIH$ (ii) $\triangle KIJ$ (iii) $\triangle KIH$ (iv) $\triangle LKH$ (v) $\triangle LJI$

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



- (i) $\triangle CDB \cong \triangle RST$ (ii) $\triangle BCD \cong \triangle RST$ (iii) $\triangle BCD \cong \triangle STR$ (iv) $\triangle BCD \cong \triangle TRS$ (v) $\triangle BCD \cong \triangle TSR$

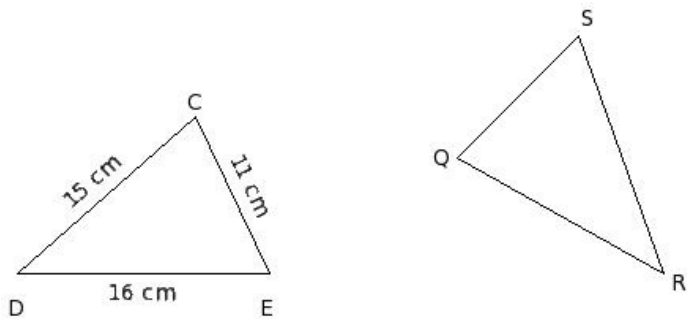
8. With the data in the figure, $\triangle HKI \cong \triangle HKJ$ by which property?



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

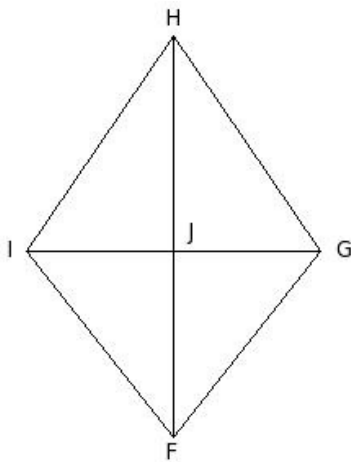
9. In the given figure, $\triangle CDE \cong \triangle QRS$. Which of the following are true?

- a) $RS = 15 \text{ cm}$
- b) $RS = 16 \text{ cm}$
- c) $SQ = 15 \text{ cm}$
- d) $QR = 16 \text{ cm}$
- e) $SQ = 11 \text{ cm}$
- f) $QR = 15 \text{ cm}$



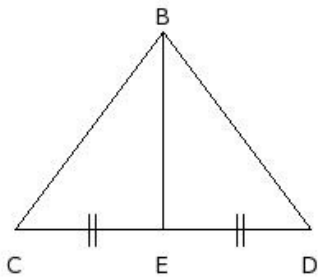
- (i) $\{b, e, f\}$ (ii) $\{c, b, e\}$ (iii) $\{a, b\}$ (iv) $\{c, e\}$ (v) $\{d, a, f\}$

10. In kite FGHI, \overline{FH} and \overline{GI} are diagonals. Then $\triangle HGF \cong$



- (i) $\triangle JHG$ (ii) $\triangle JIF$ (iii) $\triangle HIF$ (iv) $\triangle IGH$ (v) $\triangle IGF$

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



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

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

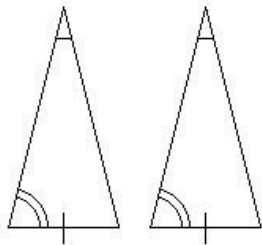


fig 3

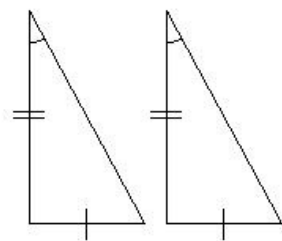


fig 4

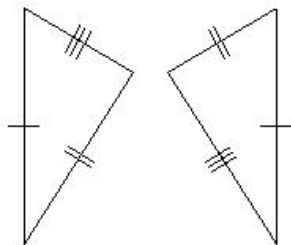


fig 1

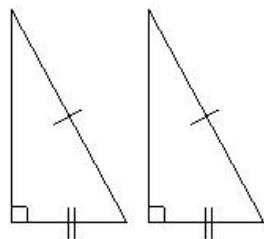


fig 2

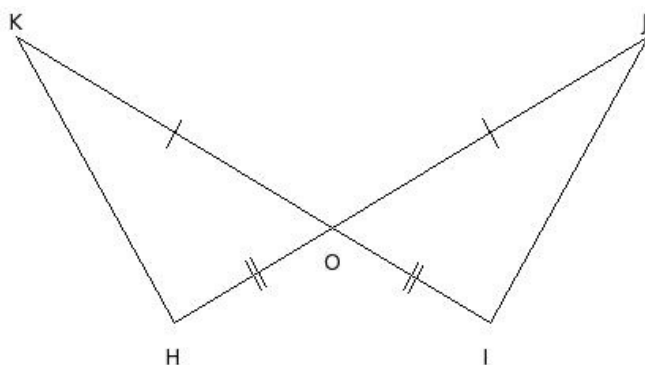
(i) fig 4 (ii) fig 2 (iii) fig 1 (iv) fig 3

13. Which of the following are true?

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

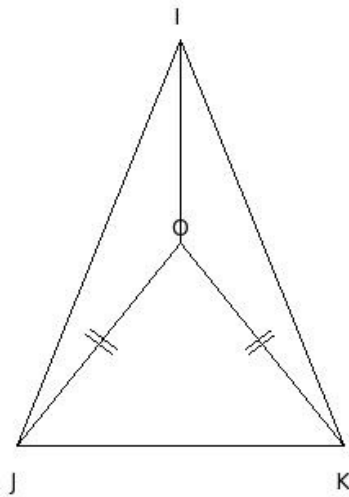
(i) {a,e,c} (ii) {c,e} (iii) {d,f,c} (iv) {a,c} (v) {b,e}

14. With the data in the given figure, $\triangle HKO \cong \triangle IJO$ by which property?



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

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



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

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

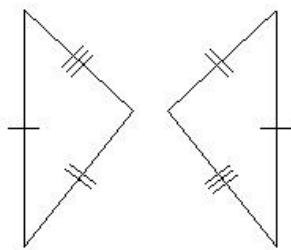


fig 3

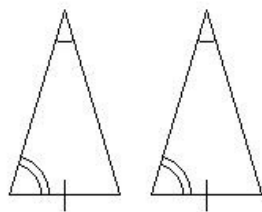


fig 4

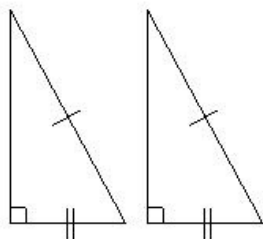


fig 1

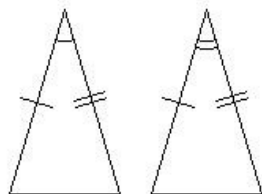
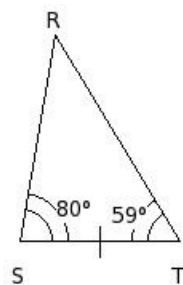
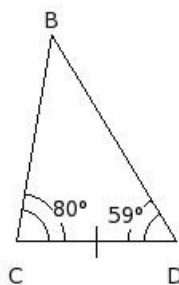


fig 2

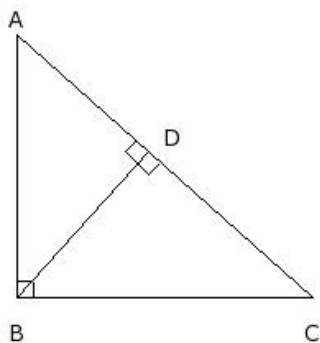
- (i) fig 2 (ii) fig 4 (iii) fig 3 (iv) fig 1

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



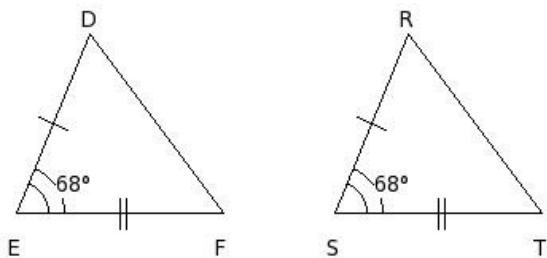
- (i) RHS Congruency (ii) ASA Congruency (iii) SSS Congruency (iv) SAS Congruency

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



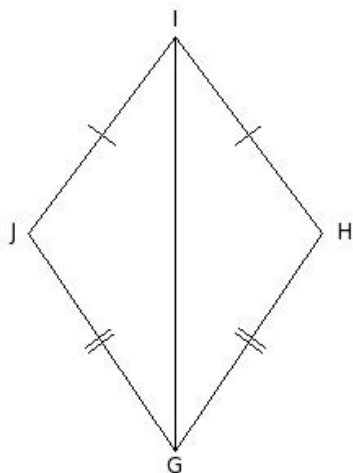
- (i) SAS Congruency (ii) ASA Congruency (iii) RHS Congruency (iv) not congruent (v) SSS Congruency

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



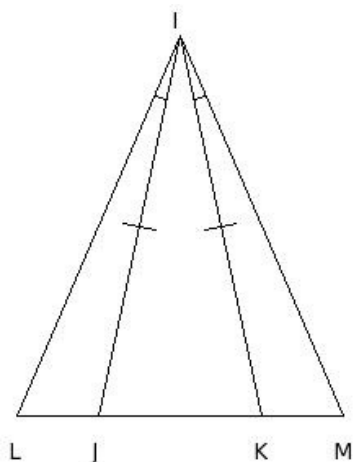
- (i) RHS Congruency (ii) SSS Congruency (iii) SAS Congruency (iv) ASA Congruency

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



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

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

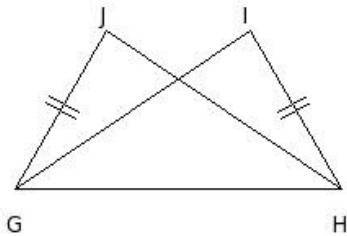


- (i) RHS Congruency (ii) not congruent (iii) ASA Congruency (iv) SSS Congruency (v) SAS Congruency

22. Which of the following are true?

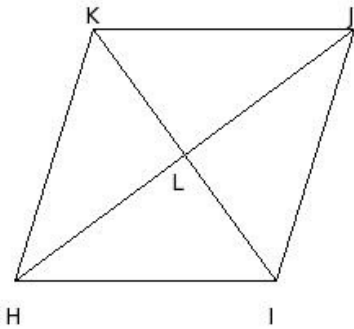
- a) Similar figures have same area.
 - b) If two figures are similar, then they are congruent too.
 - c) Similar and congruent are not synonymous.
 - d) Congruent figures have same area.
 - e) If two figures are congruent, then they are similar too.
- (i) {c,d,e} (ii) {b,d} (iii) {a,b,e} (iv) {a,c}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

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



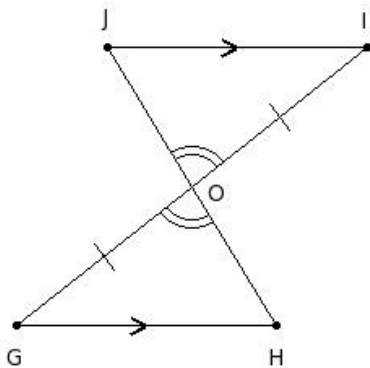
- (i) SSS Congruency (ii) RHS Congruency (iii) ASA Congruency (iv) SAS Congruency (v) not congruent

24. In rhombus HIJK, diagonals \overline{HJ} and \overline{IK} intersect at L. Then $\triangle HIJ \cong$



- (i) $\triangle IJK$ (ii) $\triangle KHI$ (iii) $\triangle LHI$ (iv) $\triangle JKH$

25. With the data in the given figure, $\triangle OJI \cong \triangle OHG$ by which property?



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

Assignment Key

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