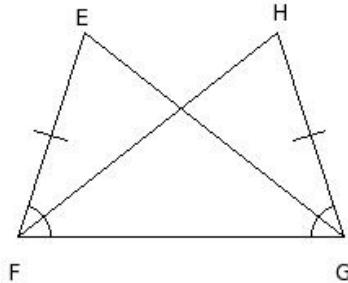
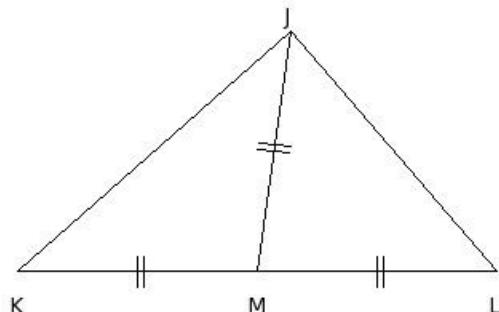


1. With the given data in the figure, $\triangle EFG \cong \triangle HGF$ by which property?



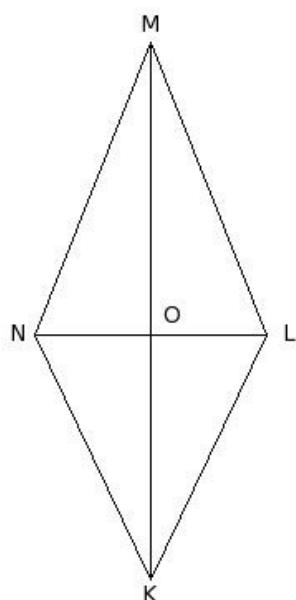
(i) SAS Congruency (ii) RHS Congruency (iii) not congruent (iv) ASA Congruency (v) SSS Congruency

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



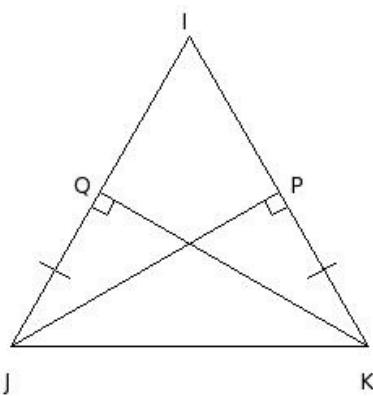
(i) SSS Congruency (ii) not congruent (iii) RHS Congruency (iv) ASA Congruency (v) SAS Congruency

3. In kite KLMN, \overline{KM} and \overline{LN} are diagonals. Then $\triangle OLK \cong$



(i) $\triangle NLM$ (ii) $\triangle OMN$ (iii) $\triangle OML$ (iv) $\triangle ONK$ (v) $\triangle NLK$

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



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

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

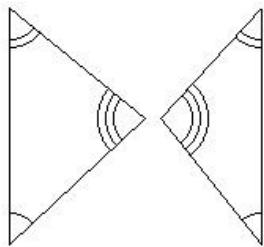


fig 3

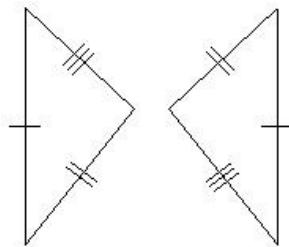


fig 4

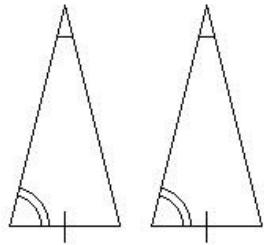


fig 1

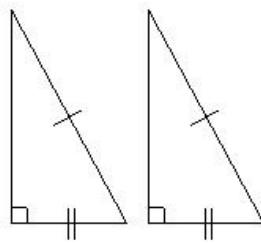


fig 2

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

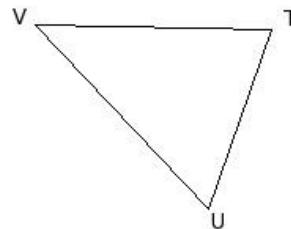
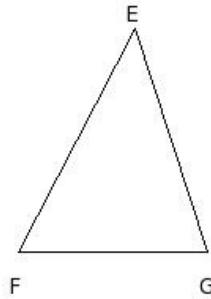
6. Which of the following are true?

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

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

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

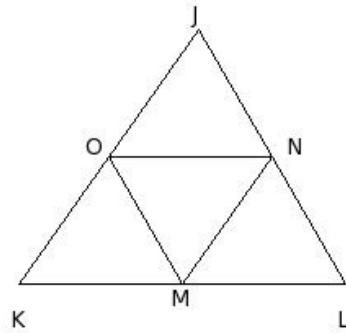
- a) $\angle G = \angle T$
- b) $\angle E = \angle T$
- c) $\angle F = \angle U$
- d) $FG = VU$
- e) $FG = UT$



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

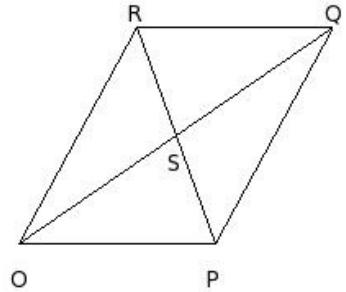
8. In the given figure, points M, N and O are the mid-points of sides KL, LJ and JK of $\triangle JKL$. Which of the following are true?

- a) $\triangle JON \cong \triangle NML$
- b) $\triangle JON \cong \triangle MNO$
- c) $\triangle OKM \cong \triangle JON$
- d) $\triangle JON \cong \triangle MON$
- e) $\triangle OKM \cong \triangle MNO$



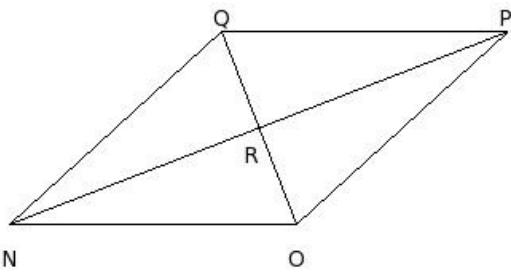
- (i) {d,a}
- (ii) {a,b,c,e}
- (iii) {d,e,a}
- (iv) {d,b}
- (v) {d,c}

9. In parallelogram OPQR, diagonals \overline{PR} and \overline{OQ} intersect at S. Then $\triangle OPQ \cong$



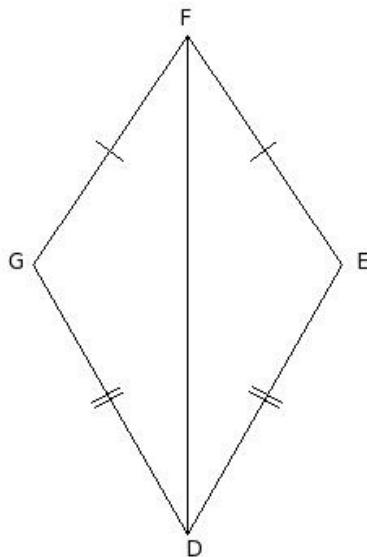
- (i) $\triangle ROP$
- (ii) $\triangle QRO$
- (iii) $\triangle QRS$
- (iv) $\triangle PQR$
- (v) $\triangle OPS$

10. In rhombus NOPQ, diagonals \overline{NP} and \overline{OQ} intersect at R. Then $\triangle PQN \cong$



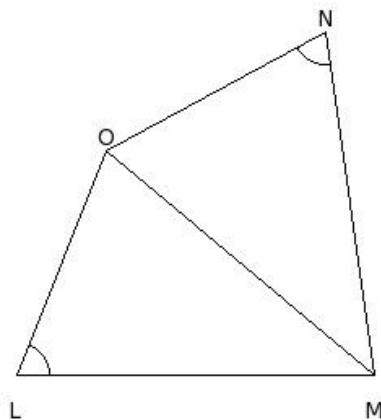
- (i) $\triangle RNO$
- (ii) $\triangle OPQ$
- (iii) $\triangle NOP$
- (iv) $\triangle QNO$

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



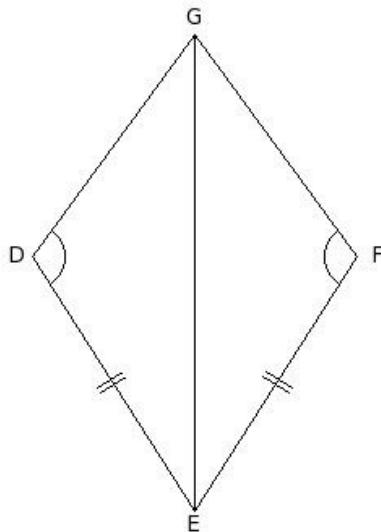
- (i) SAS Congruency
- (ii) ASA Congruency
- (iii) not congruent
- (iv) SSS Congruency
- (v) RHS Congruency

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



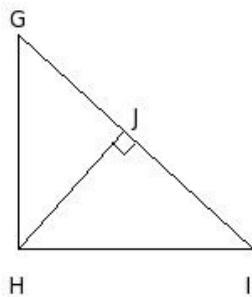
- (i) not congruent
- (ii) SAS Congruency
- (iii) SSS Congruency
- (iv) ASA Congruency
- (v) RHS Congruency

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



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

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



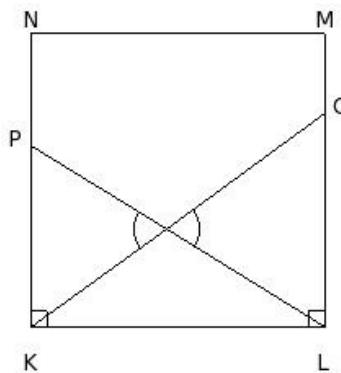
(i) ASA Congruency (ii) RHS Congruency (iii) not congruent (iv) SAS Congruency (v) SSS Congruency

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



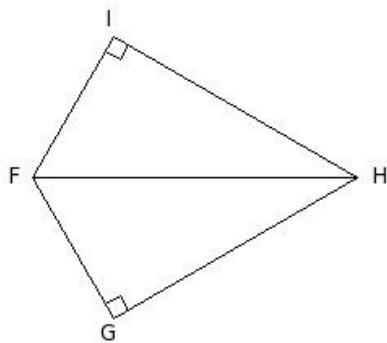
(i) $\triangle EFG \cong \triangle QRP$ (ii) $\triangle EFG \cong \triangle RPQ$ (iii) $\triangle EFG \cong \triangle PQR$ (iv) $\triangle EFG \cong \triangle RQP$ (v) $\triangle FGE \cong \triangle PQR$

16. With the data in the figure, $\triangle KLO \cong \triangle LKP$ by which property?



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

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



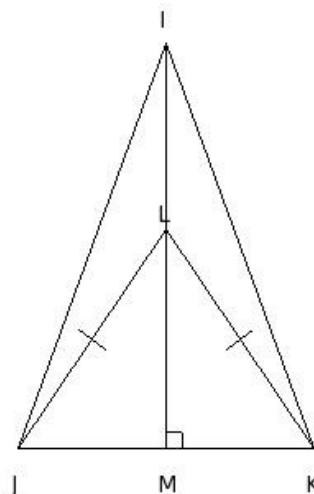
(i) SSS Congruency (ii) RHS Congruency (iii) SAS Congruency (iv) ASA Congruency (v) not congruent

18. Which of the following are true?

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

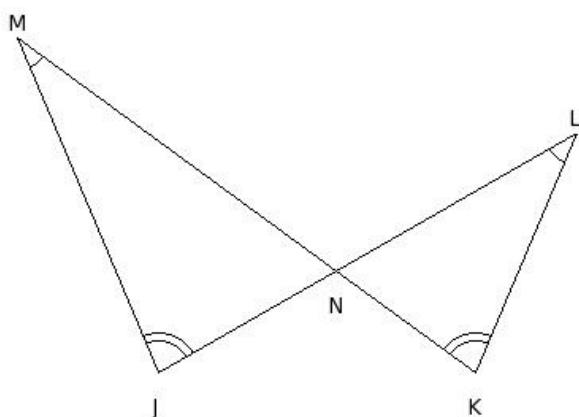
(i) {c,d} (ii) {b,a,d} (iii) {a,d,e} (iv) {b,c,e} (v) {b,a}

19. In the given figure, $\triangle LJK$ is an isosceles triangle. $IM \perp JK$ passing through L. $\triangle ILJ \cong \triangle ILK$ by which property?



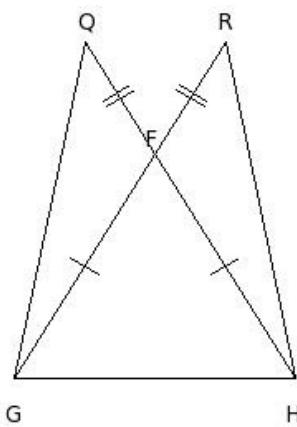
(i) ASA Congruency (ii) not congruent (iii) RHS Congruency (iv) SAS Congruency (v) SSS Congruency

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



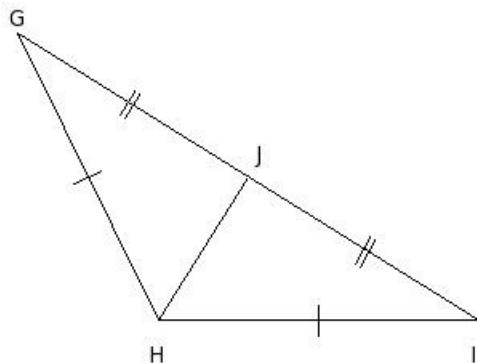
(i) RHS Congruency (ii) not congruent (iii) SSS Congruency (iv) SAS Congruency (v) ASA Congruency

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



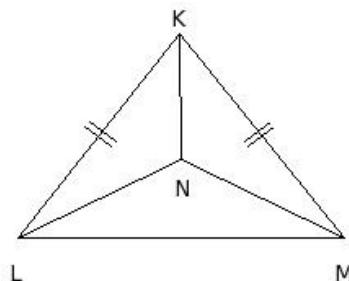
(i) RHS Congruency (ii) SSS Congruency (iii) SAS Congruency (iv) not congruent (v) ASA Congruency

22. In the given figure, $\triangle GHI$ is an obtuse angled triangle. $\triangle GHJ \cong \triangle IHJ$ by which property?



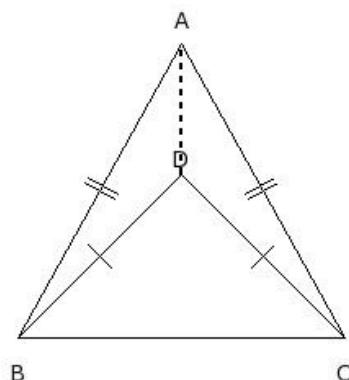
(i) SAS Congruency (ii) RHS Congruency (iii) not congruent (iv) ASA Congruency (v) SSS Congruency

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



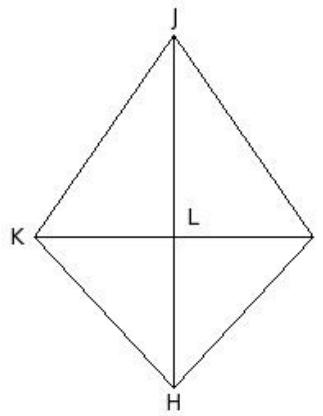
(i) ASA Congruency (ii) not congruent (iii) SSS Congruency (iv) SAS Congruency (v) RHS Congruency

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



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

25. In kite $HJKL$, \overline{HJ} and \overline{IK} are diagonals. Then $\triangle JKH \cong$



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

Assignment Key

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

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