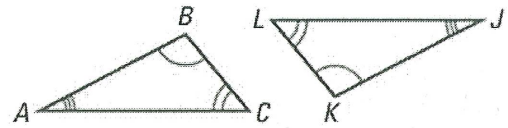


Tell whether the angles or sides are corresponding angles, corresponding sides or neither.

1. $\angle C$ and $\angle L$

2. \overline{AC} and \overline{JK}

Corresponding Angles Neither



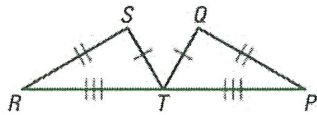
3. \overline{BC} and \overline{KL}

4. $\angle B$ and $\angle L$

Corresponding Sides Neither

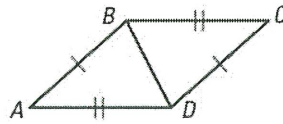
Decide whether the congruence statement is true. **Explain your reasoning.**

5. $\triangle RST \cong \triangle TQP$



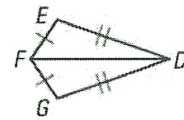
Not True; why?

6. $\triangle ABD \cong \triangle CDB$



True; why?

7. $\triangle DEF \cong \triangle DGF$

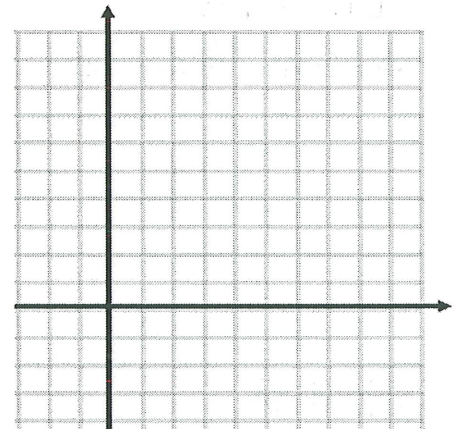


True; why?

8. Use the given coordinates to determine if $\triangle ABC \cong \triangle DEF$. **Explain your reasoning.** * Show work *

$A(-2, 1), B(3, -3), C(7, 5); D(3, 6), E(8, 2), F(10, 11)$

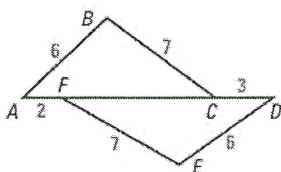
Not Congruent: $\triangle ABC \not\cong \triangle DEF$



Determine whether $\triangle ABC$ and $\triangle DEF$ are congruent. If they are congruent, write a congruent statement.

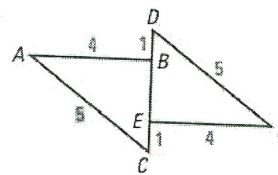
Explain your reasoning.

9.



Not Congruent

10.

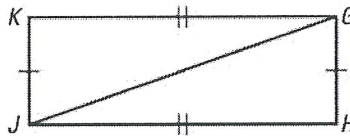


Not Congruent

11. Prove.

Given: $\overline{GH} \cong \overline{JK}$, $\overline{HJ} \cong \overline{KG}$

Prove: $\triangle GHJ \cong \triangle JKG$

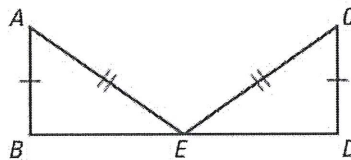


Statement	Reason
1. $\overline{GH} \cong \overline{JK}$ $\overline{HJ} \cong \overline{KG}$	1. Given
2. $\overline{GJ} \cong \overline{JG}$	2. Reflexive Property
3. $\triangle GHJ \cong \triangle JKG$	3. SSS

12. Prove.

Given: $\overline{AE} \cong \overline{CE}$, $\overline{AB} \cong \overline{CD}$
E is the midpoint of \overline{BD}

Prove: $\triangle EAB \cong \triangle ECD$

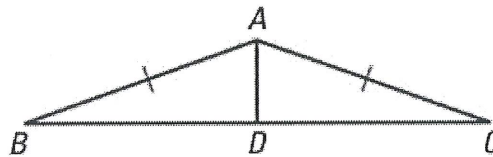


Statement	Reason
1. $\overline{AE} \cong \overline{CE}$ $\overline{AB} \cong \overline{CD}$	1. Given
2. E is the midpoint of \overline{BD}	2. Given
3. $\overline{BE} \cong \overline{DE}$	3. Def ⁿ of a Midpoint
4. $\triangle EAB \cong \triangle ECD$	4. SSS

13. Prove.

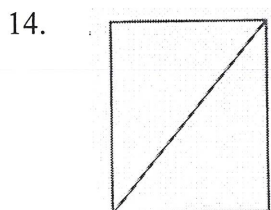
Given: $\overline{AB} \cong \overline{AC}$, \overline{AD} bisects \overline{BC}

Prove: $\triangle ABD \cong \triangle ACD$

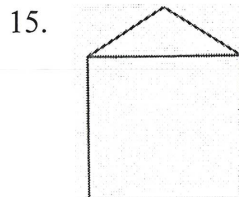


Statement	Reason
1. $\overline{AB} \cong \overline{AC}$	1. Given
2. \overline{AD} bisects \overline{BC}	2. Given
3. $\overline{BD} \cong \overline{CD}$	3. Def ⁿ of Segment Bisector
4. $\overline{AD} \cong \overline{AD}$	4. Reflexive Property
5. $\triangle ABD \cong \triangle ACD$	5. SSS

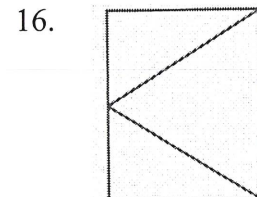
Decide whether the figure is stable. **Explain your reasoning.**



Stable



Not stable



Stable