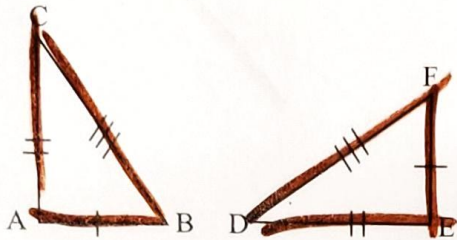


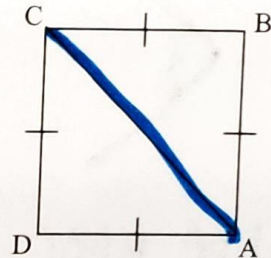
Triangle Congruence Worksheet #1

For each pair of triangles, tell which postulates, if any, make the triangles congruent.

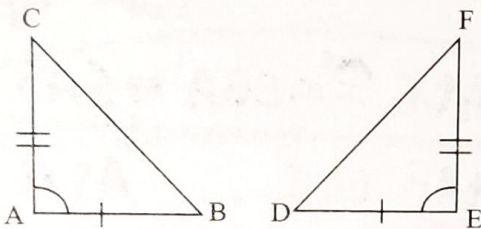
1. $\triangle ABC \cong \triangle EFD$ SSS



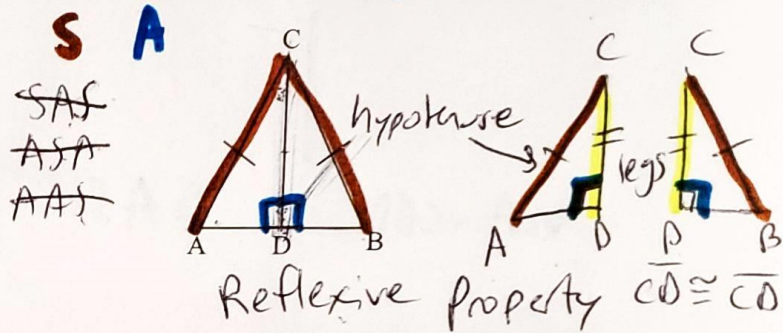
2. $\triangle ABC \cong \triangle CDA$ SSS



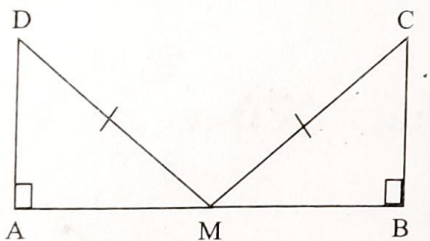
3. $\triangle ABC \cong \triangle EFD$ SAS



4. $\triangle ADC \cong \triangle BDC$ HL

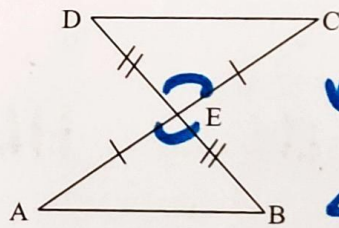


5. $\triangle MAD \cong \triangle MBC$ Not Congruent



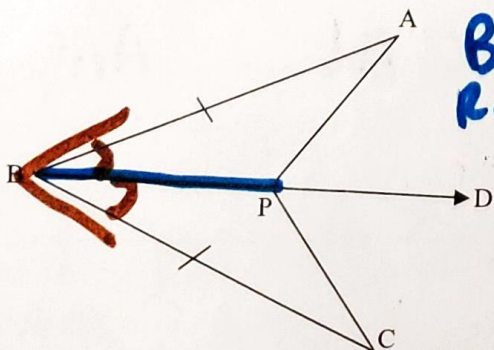
No leg given

6. $\triangle ABE \cong \triangle CDE$ SAS



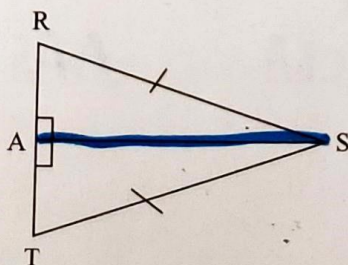
vertical Angle $\angle DEC$

7. $\triangle BAP \cong \triangle BCP$ SAS
Given: \overline{BD} bisects $\angle ABC$



$BP \cong BP$
Reflexive

8. $\triangle SAT \cong \triangle SAR$ HL



$\overline{AS} \cong \overline{AS}$
Reflexive

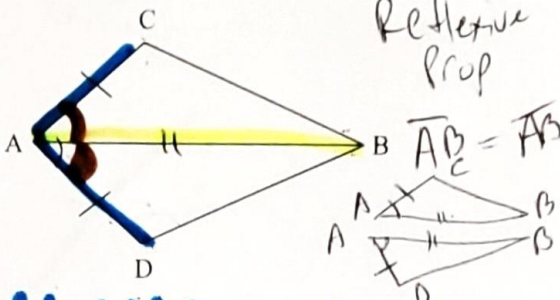
Triangle Congruence Worksheet #2

For each pair of triangles, Determine the congruent triangles and tell which postulates, if any, make the triangles congruent.

1. $\triangle ACB \cong \triangle ADB$ because SAS

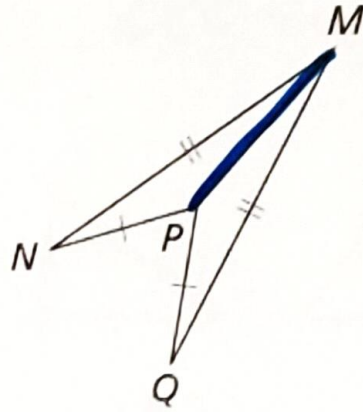
SAS

SAS
AAS
ASA

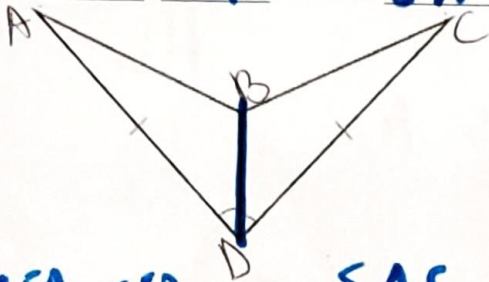


Reflexive Prop
 $\overline{AB} = \overline{AB}$

2. $\triangle MNP \cong \triangle MQP$ SSS



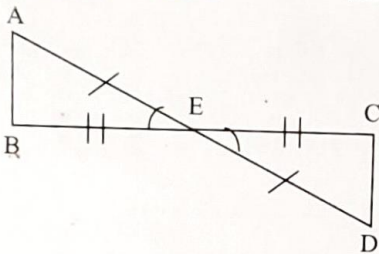
3. $\triangle DBA \cong \triangle DBC$ because SAS



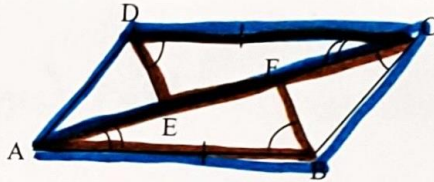
Two options

$\triangle ADC \cong \triangle CBA$ by SAS

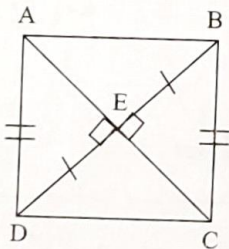
4. $\triangle BEA \cong \triangle CED$ because SAS



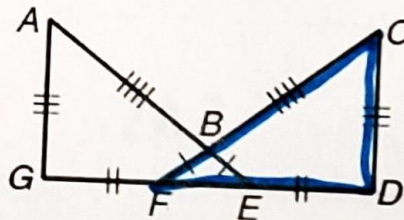
5. $\triangle BAF \cong \triangle DCE$ because ASA



6. $\triangle EDA \cong \triangle EBC$ because HL

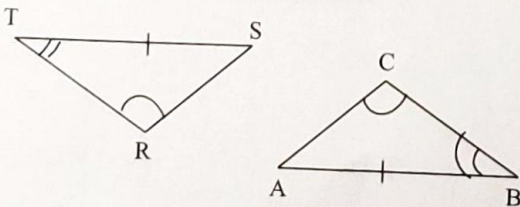


7. $\triangle AEG \cong \triangle CFD$ because SSS

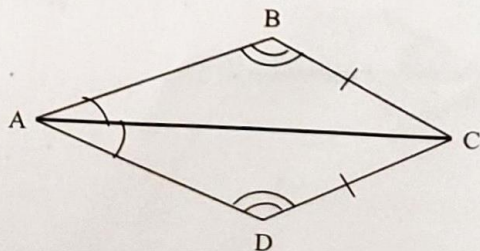


Segment Addition

8. $\triangle RTS \cong \triangle CBA$ because AAS

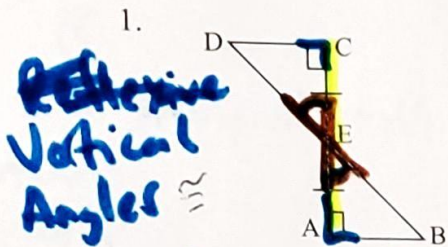


9. $\triangle ABC \cong \triangle ADC$ because AAS

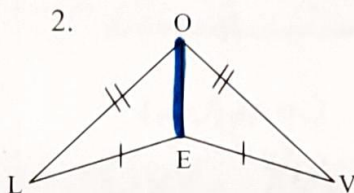


Triangle Congruence Worksheet #3

II. For each pair of triangles, tell: (a) Are they congruent (b) Write the triangle congruency statement. (c) Give the postulate that makes them congruent.

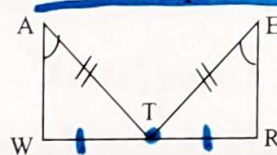


- a. Congruent
 b. $\triangle ECD \cong \triangle EAB$
 c. ASA

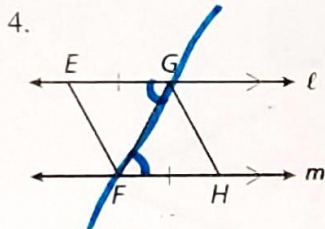


- a. Congruent
 b. $\triangle OLE \cong \triangle OVE$
 c. SSS

3. Given: T is the midpoint of \overline{WR}

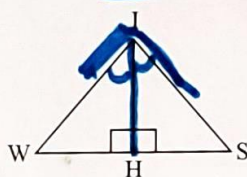


- a. Not Congruent
 b. $\triangle \cong \triangle$
 c. ~~ASA~~ SSA

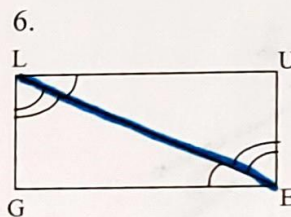


- a. Congruent
 b. $\triangle GEF \cong \triangle FHG$
 c. SAS
 Alt. Int Ang. \cong Reflexive
 $GF \cong GF$ Reflexive

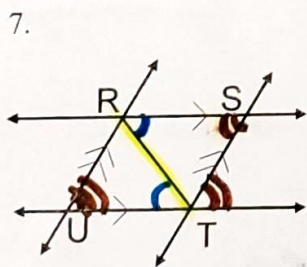
5. Given: \overline{IH} Bisects $\angle WIS$



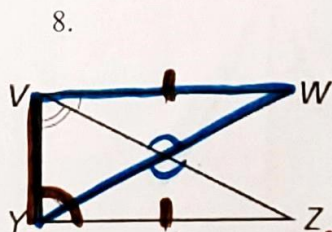
- a. Congruent
 b. $\triangle HIW \cong \triangle HIS$
 c. ASA
 Reflexive side
 $HI \cong HI$



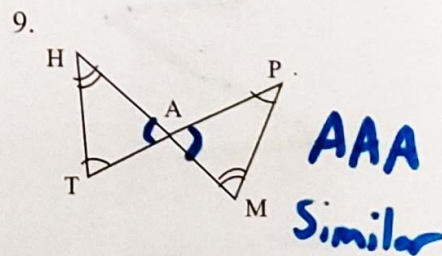
- a. Congruent $\overline{LE} \cong \overline{LE}$
 b. $\triangle ELG \cong \triangle LEU$ Reflexive side
 c. ASA



- a. Congruent
 b. $\triangle TUR \cong \triangle RST$
 c. AAS
 Alt. Int \cong
 Corresponding \cong



- a. Congruent Angle Addition
 b. $\triangle VYZ \cong \triangle YVW$
 c. SAS



- a. Not Congruent AAA Similar
 b. $\triangle \cong \triangle$
 c. _____

