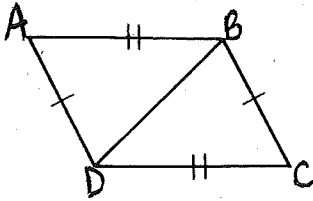
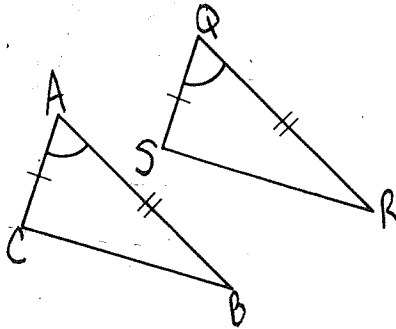


Identify the congruent triangles. State which theorem or postulate can be used to prove the two triangles are congruent. If there is not enough information, write *not possible*.

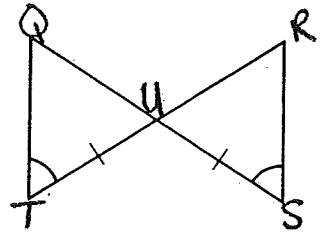
1.



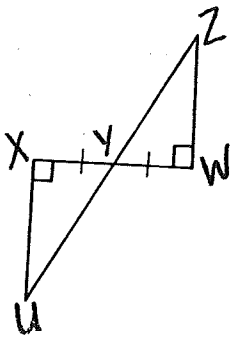
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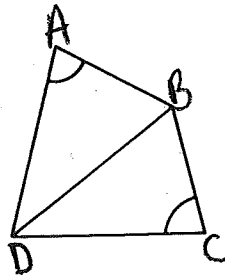
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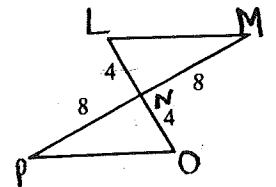
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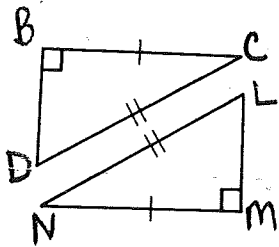
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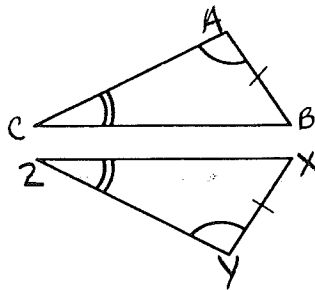
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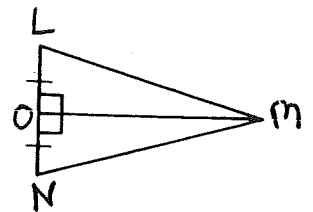
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8.

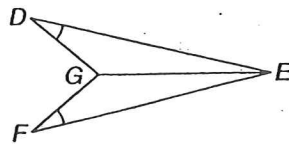


9.

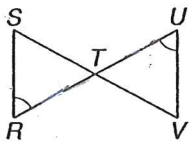


C.

Given: $\angle D \cong \angle F$
 \overline{GE} bisects $\angle DEF$.
Prove: $\overline{DG} \cong \overline{FG}$



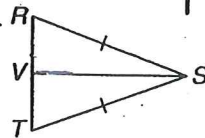
D.



Given: T is the midpoint of \overline{RU} ; $\angle R \cong \angle U$
Prove: $\overline{RS} \cong \overline{UV}$

E.

Given: $\overline{RS} \cong \overline{TS}$
 $\overline{VS} \perp \overline{RT}$
Prove: $\triangle RSV \cong \triangle TSV$



Sec 4.4 & 4.5 Prac #1

Geometry

Name Key
Hour _____

Identify the congruent triangles. State which theorem or postulate can be used to prove the two triangles are congruent. If there is not enough information, write *not possible*.

1.
 $\triangle ADB \cong \triangle CBD$
 SSS

2.
 $\triangle ACB \cong \triangle QSR$
 SAS

3.
 $\triangle QUT \cong \triangle RUS$
 ASA

4.
 $\triangle XYU \cong \triangle WYZ$
 ASA

5.
 not enough info

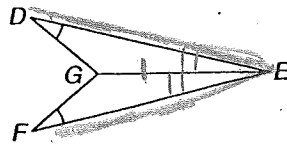
6.
 $\triangle LNM \cong \triangle ONP$
 SAS

7.
 $\triangle DBC \cong \triangle LMN$
 HL

8.
 $\triangle ACB \cong \triangle YZX$
 AAS

9.
 $\triangle LOM \cong \triangle NOM$
 SAS

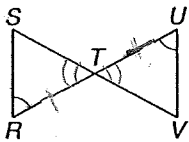
C. Given: $\angle D \cong \angle F$
 \overline{GE} bisects $\angle DEF$.
 Prove: $\overline{DG} \cong \overline{FG}$



- ① $\angle D \cong \angle F$
 \overline{GE} bisects $\angle DEF$
- ② $\overline{GE} \cong \overline{GE}$
- ③ $\angle DEG \cong \angle FEG$
- ④ $\triangle DEG \cong \triangle FEG$
- ⑤ $\overline{DG} \cong \overline{FG}$

- ① given
- ② Reflexive Property
- ③ Def of \angle Bisector
- ④ AAS.
- ⑤ CPCTC

D.

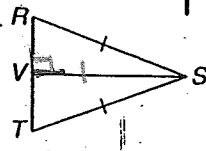


Given: T is the midpoint of \overline{RU} ; $\angle R \cong \angle U$
 Prove: $\overline{RS} \cong \overline{UV}$

- ① T is midpoint of \overline{RU}
 $\angle R \cong \angle U$
- ② $\overline{RT} \cong \overline{UT}$
- ③ $\angle STR \cong \angle VTU$
- ④ $\triangle RST \cong \triangle UVT$
- ⑤ $\overline{RS} \cong \overline{UV}$

- ① given
- ② Def of midpoint
- ③ Vertical \angle 's are \cong
- ④ ASA
- ⑤ CPCTC

E. Given: $\overline{RS} \cong \overline{TS}$
 $\overline{VS} \perp \overline{RT}$
 Prove: $\triangle RSV \cong \triangle TSV$



- ① $\overline{RS} \cong \overline{TS}$
- ② $\angle RVS = \angle TVS = 90$
- ③ $\triangle RSV$ & $\triangle TSV$ are right \triangle 's
- ④ $\overline{VS} \cong \overline{VS}$
- ⑤ $\triangle RSV \cong \triangle TSV$

- ① given
- ② Def of \perp
- ③ Def of Right \triangle
- ④ Reflexive
- ⑤ HL