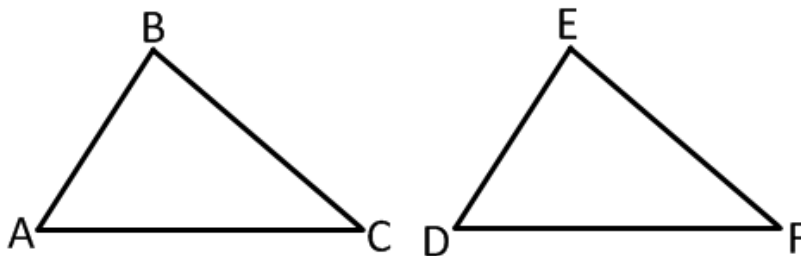


Name: _____ Period: _____

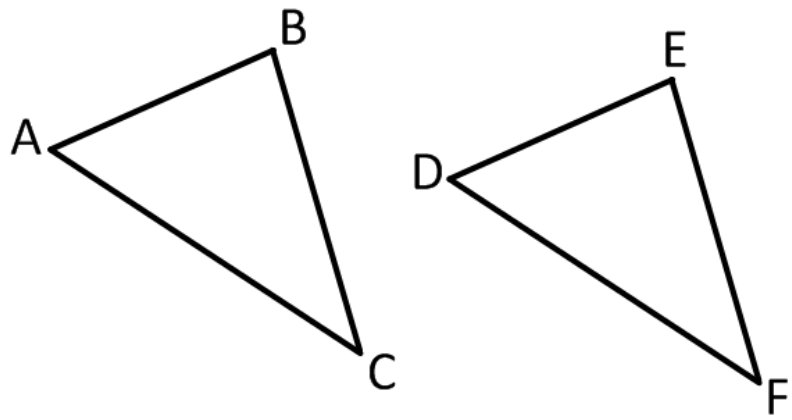
Complete each proof as directed. Remember – we are using the congruency postulate/theorems (SSS, SAS, ASA, and AAS) and we are sure to write each set of congruent parts **in order** for the postulate/theorem we are using to prove the triangles congruent.

Points will be lost for diagrams not filled in with congruence markings!

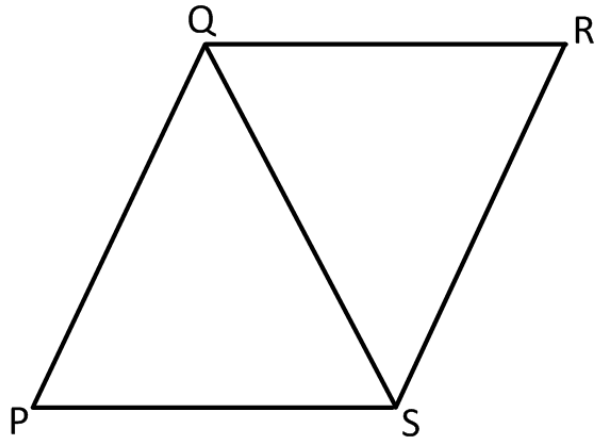
- 1) Given: $\overline{AB} \cong \overline{DE}$, $\angle B \cong \angle E$ and $\angle A \cong \angle D$
 Prove: $\triangle ABC \cong \triangle DEF$



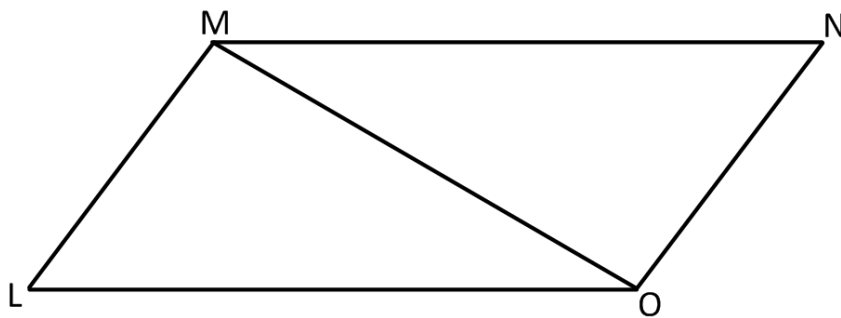
- 2) Given: $\overline{AB} \cong \overline{DE}$, $\overline{AC} \cong \overline{DF}$, $\overline{BC} \cong \overline{EF}$
Prove: $\triangle ABC \cong \triangle DEF$



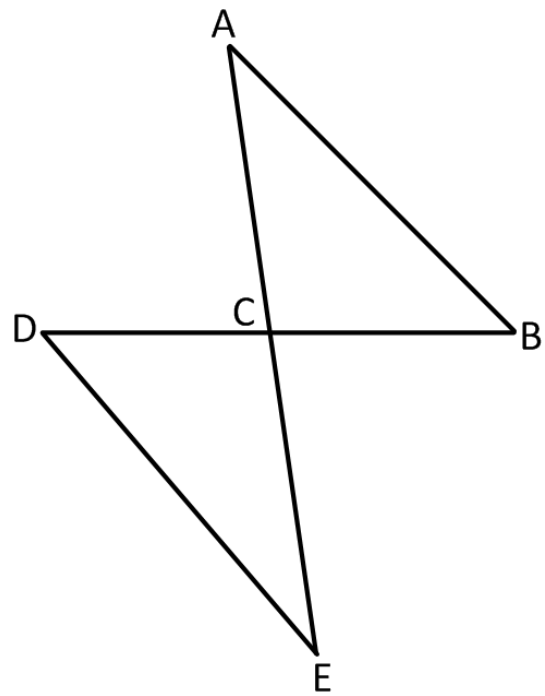
- 3) Given: $\overline{PQ} \cong \overline{RS}$, and $\angle PQS \cong \angle RSQ$
Prove: $\triangle PQS \cong \triangle RSQ$



- 4) Given: $\angle L \cong \angle N$, $\angle LOM \cong \angle NMO$
Prove: $\triangle LMO \cong \triangle NOM$



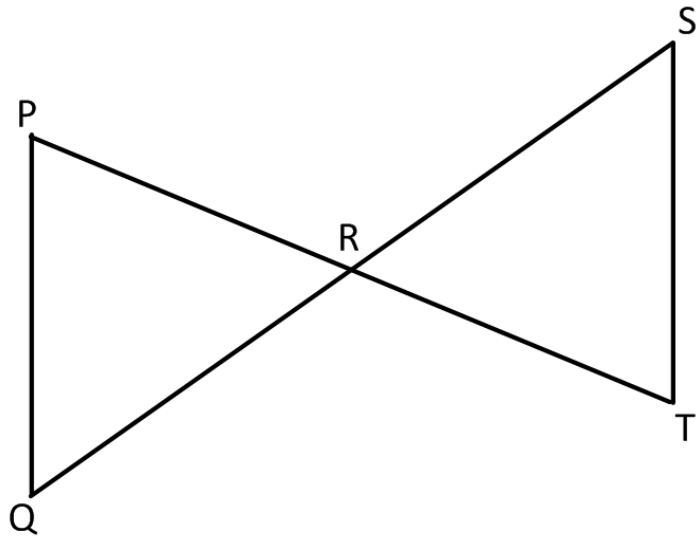
- 5) Given: \overline{AE} bisects \overline{BD} , $\angle A \cong \angle E$
Prove: $\triangle ABC \cong \triangle EDC$



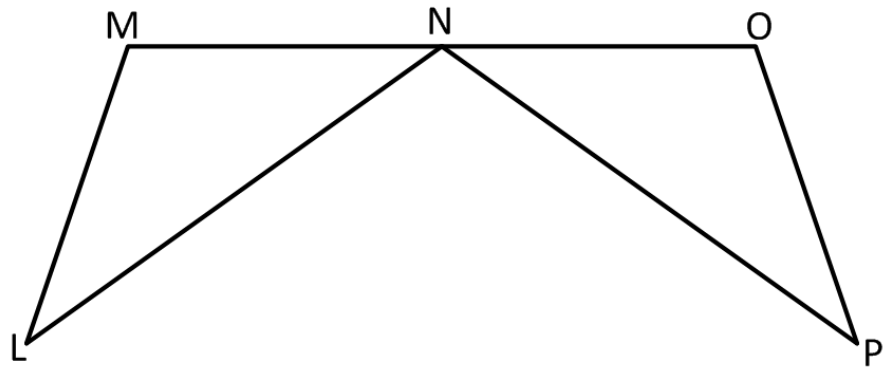
6)

Given: $\overline{PQ} \parallel \overline{ST}$, $\overline{PR} \cong \overline{TR}$

Prove: $\triangle PQR \cong \triangle TSR$



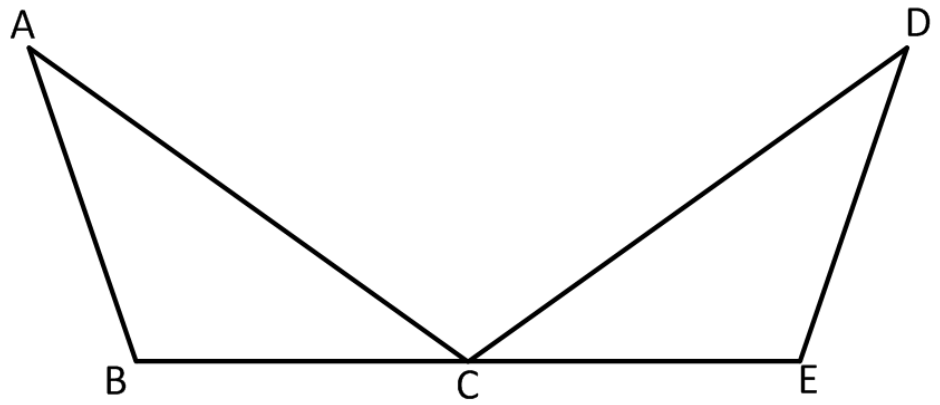
- 7) Given: N is the midpoint of \overline{MO} , $\overline{LM} \cong \overline{PO}$ and $\overline{LN} \cong \overline{PN}$
Prove: $\triangle LMN \cong \triangle PON$



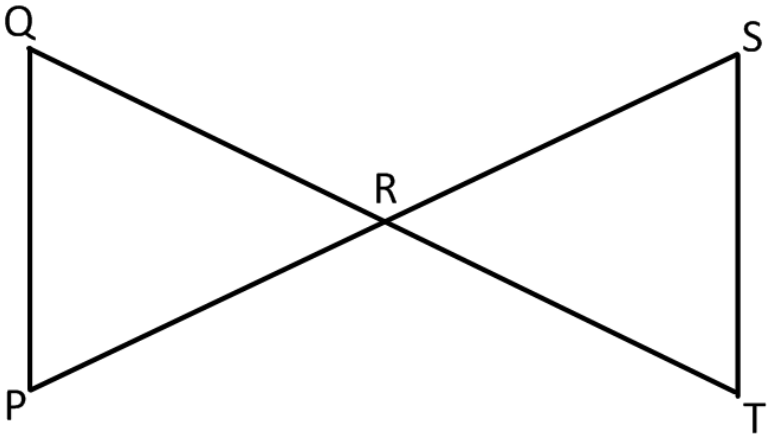
8) Given: C is the midpoint of \overline{BE} , $\angle B \cong \angle E$, and $\overline{AB} \cong \overline{DE}$

Prove: $\triangle ABC \cong \triangle DEC$

$\triangle PQS \cong \triangle RQS$



- 9) Given: \overline{QT} bisects \overline{SP} , \overline{SP} bisects \overline{QT}
Prove: $\triangle QRP \cong \triangle TRS$



- 10) Given: $\overline{LM} \cong \overline{NO}$, and $\angle M \cong \angle O$
Prove: $\triangle MPL \cong \triangle OPN$

