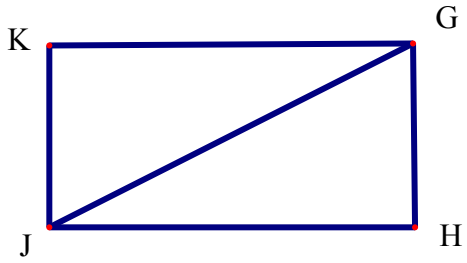
Name:_____ Date_____

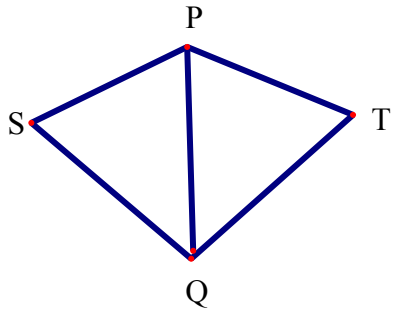
Proving Congruent Triangles II

Write a proof for each of the following.

1. Given: $\overline{GH} \cong \overline{JK}, \overline{HJ} \cong \overline{KG}$
   Prove: $\triangle GHJ \cong \triangle JKG$

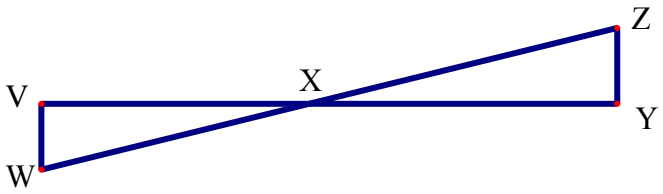


2. Given: $\overline{PQ}$ bisects $\angle SPT$
   $\overline{SP} \cong \overline{TP}$
   Prove: $\triangle SPQ \cong \triangle TPQ$



3. Given: X is the midpoint of $\overline{WZ}$ and $\overline{VY}$

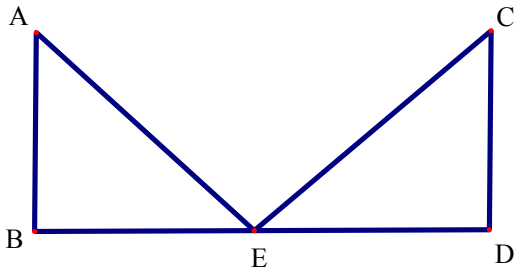
Prove: $\triangle VWX \cong \triangle YZX$



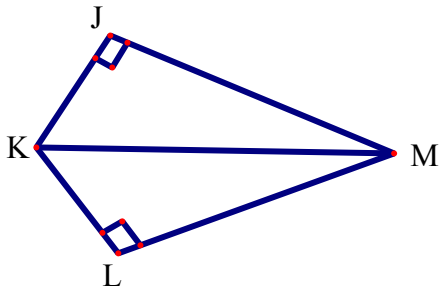
4. Given: $\overline{AE} \cong \overline{CE}, \overline{AB} \cong \overline{CD}$

E is the midpoint of $\overline{BD}$

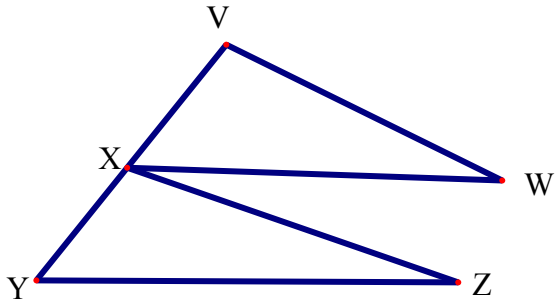
Prove: $\triangle EAB \cong \triangle ECD$



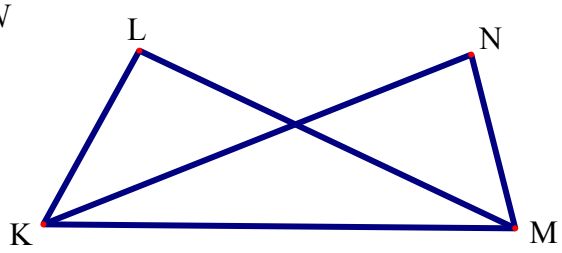
5. Given: $\angle J$ and $\angle L$ are right angles
$\overline{JM} \cong \overline{LM}$
Prove: $\triangle JKM \cong \triangle LKM$



6. Given: $\overline{VX} \cong \overline{XY}, \overline{XW} \cong \overline{YZ}$
$\overline{XW} \parallel \overline{YZ}$
Prove: $\triangle VXW \cong \triangle XYZ$

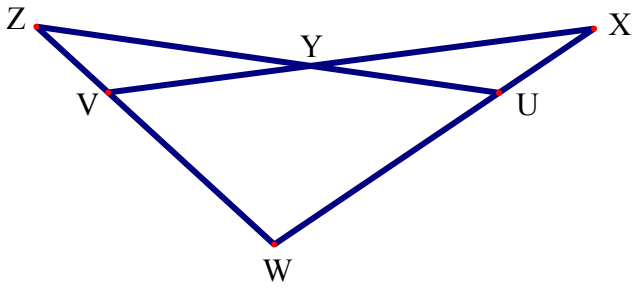


7. Given: $\angle NKM \cong \angle LMK, \angle L \cong \angle N$
Prove: $\triangle NMK \cong \triangle LKM$

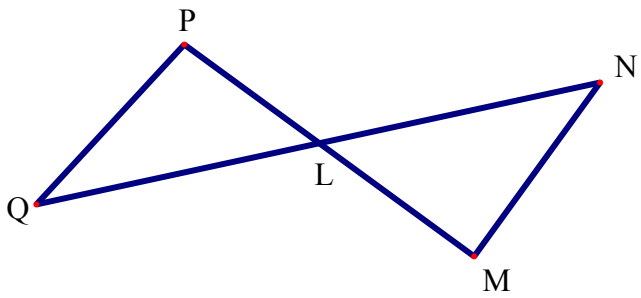


For the following proofs, Use congruent triangles to prove the given statements.

8. Given: $\overline{VW} \cong \overline{UW}, \angle X \cong \angle Z$
Prove: $\overline{UZ} \cong \overline{VX}$



9. Given: $\overline{PQ} \cong \overline{MN}, \angle P \cong \angle M$
Prove: $\overline{QL} \cong \overline{NL}$



10. Given: $\overline{AB} \cong \overline{AC}$, $\overline{AD}$ bisects $\overline{BC}$
Prove: $\angle BAD \cong CAD$