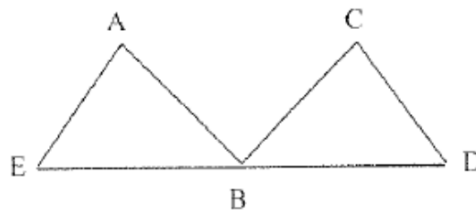


1. Given: $\overline{AE} \cong \overline{CB}$, $\overline{AB} \cong \overline{CD}$,
and B is the midpoint of \overline{ED}

Prove: $\triangle AEB \cong \triangle CBD$

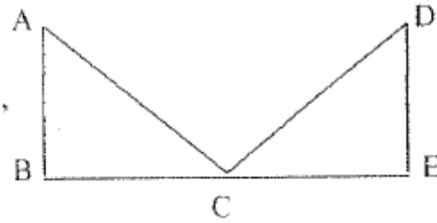
(Hint: Draw the information on the picture as you know it.)



statements	reasons
1. $\overline{AE} \cong \overline{CB}$, $\overline{AB} \cong \overline{CD}$, and B is the midpoint of \overline{ED}	1.
2. $\overline{EB} \cong \overline{DB}$	2.
3. $\triangle AEB \cong \triangle CBD$	3.

2. Given: $\overline{AB} \perp \overline{BE}$, $\overline{DE} \perp \overline{BE}$, $\overline{AC} \cong \overline{DC}$,
and $\angle BAC \cong \angle EDC$

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



statements

reasons

1. $\overline{AB} \perp \overline{BE}$, $\overline{DE} \perp \overline{BE}$, $\overline{AC} \cong \overline{DC}$,
and $\angle BAC \cong \angle EDC$

1.

2. $\angle B$ and $\angle E$ are right angles

2.

3. $\angle B \cong \angle E$

3.

4. $\triangle ABC \cong \triangle DEC$

4.

3. Given: $\overline{GK} \cong \overline{ML}$, $\angle GKM \cong \angle LMK$

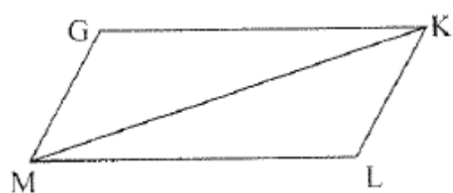
Prove: $\triangle GKM \cong \triangle LMK$

statements

1. $\overline{GK} \cong \overline{ML}$, $\angle GKM \cong \angle LMK$

2. $\overline{MK} \cong \overline{MK}$

3. $\triangle GKM \cong \triangle LMK$



reasons

1.

2.

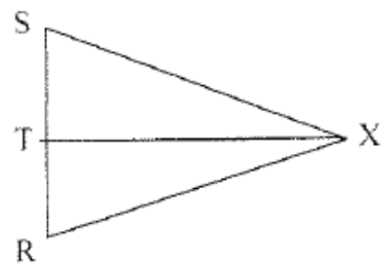
3.

4. Given: $\angle S \cong \angle R$ and \overline{XT} bisects $\angle SXR$

Prove: $\triangle SXT \cong \triangle RXT$

statements

1. $\angle S \cong \angle R$ and \overline{XT} bisects $\angle SXR$
2. $\angle SXT \cong \angle RXT$
3. $\overline{XT} \cong \overline{XT}$
4. $\triangle SXT \cong \triangle RXT$



reasons

- 1.
- 2.
- 3.
- 4.

5. Given: $\overline{FT} \cong \overline{FR}$ and $\overline{ST} \cong \overline{SR}$

Prove: $\triangle FTS \cong \triangle FRS$

statements

1. $\overline{FT} \cong \overline{FR}$ and $\overline{ST} \cong \overline{SR}$

2.

3.



reasons

1.

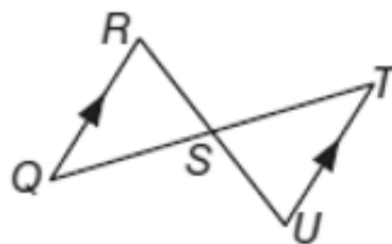
2. Reflexive Property

3.

Prove each of the following:

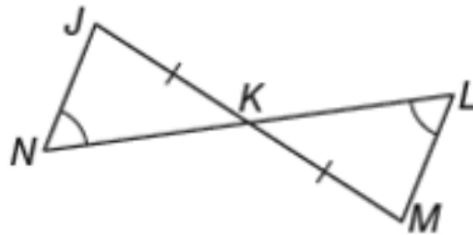
Given: S is the midpoint of \overline{QT} .
 $\overline{QR} \parallel \overline{TU}$

Prove $\triangle QSR \cong \triangle TSU$



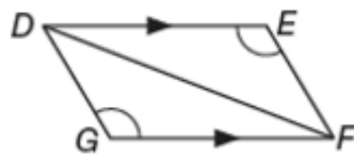
Given: $\angle N \cong \angle L$
 $\overline{JK} \cong \overline{MK}$

Prove: $\triangle JKN \cong \triangle MKL$



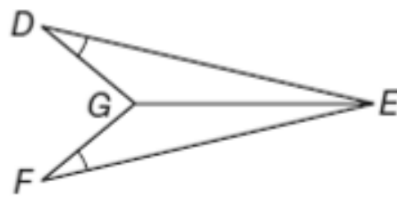
Given: $\overline{DE} \parallel \overline{FG}$
 $\angle E \cong \angle G$

Prove: $\triangle DFG \cong \triangle FDE$



Given: $\angle D \cong \angle F$
 \overline{GE} bisects $\angle DEF$

Prove: $\overline{DG} \cong \overline{FG}$



Given: $\overline{AB} \cong \overline{CB}$
 $\angle A \cong \angle C$
 \overline{BD} bisects $\angle ABC$

Prove: $\overline{AD} \cong \overline{CD}$

