

Math 3

Name _____

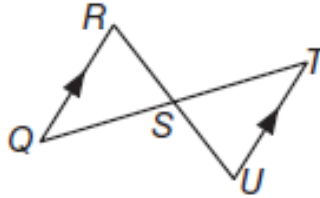
Proving Triangles Congruent

Period _____

Prove each of the following:

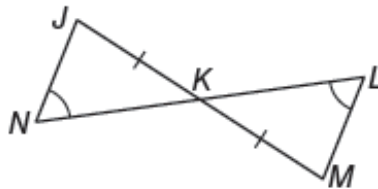
Given: S is the midpoint of \overline{QT} .
 $\overline{QR} \parallel \overline{TU}$

Prove $\triangle QSR \cong \triangle TSU$



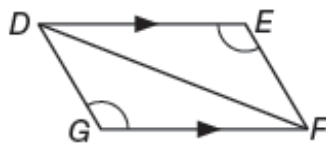
Given: $\angle N \cong \angle L$
 $\overline{JK} \cong \overline{MK}$

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



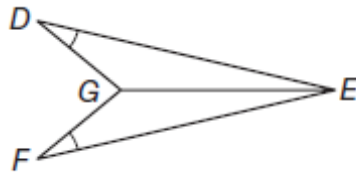
Given: $\overline{DE} \parallel \overline{FG}$
 $\angle E \cong \angle G$

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



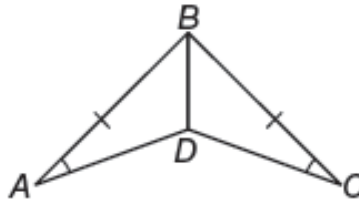
Given: $\angle D \cong \angle F$
 \overline{GE} bisects $\angle DEF$

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



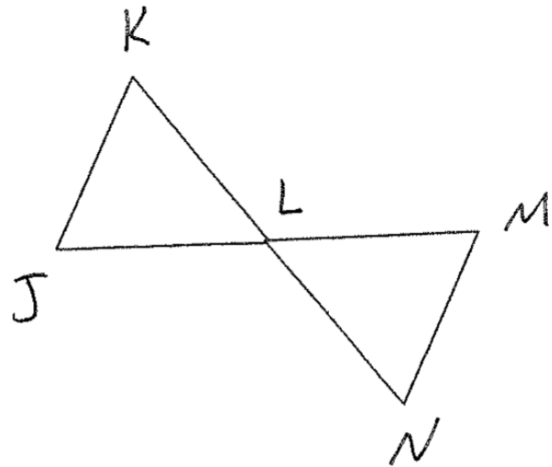
Given: $\overline{AB} \cong \overline{CB}$
 $\angle A \cong \angle C$
 \overline{BD} bisects $\angle ABC$

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



Given: $\overline{KJ} \cong \overline{MN}$
L is the midpoint of \overline{JM}
 $\overline{KJ} \parallel \overline{MN}$

Prove: $\overline{KL} \cong \overline{NL}$



Given: $\angle 1 \cong \angle 2$
 $\overline{AB} \cong \overline{BD}$

Prove: $\angle A \cong \angle D$

