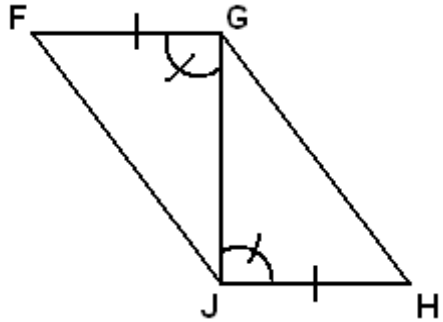


CP Geometry – Proofs Unit 4 Review

“Type A” Proofs

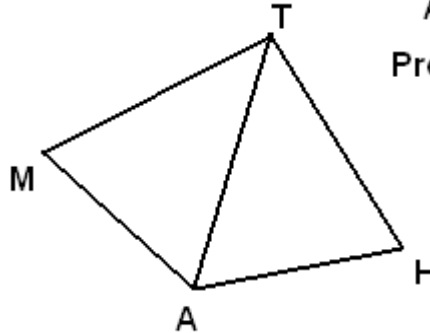
[A1]



Given: Picture

Prove: $\overline{FJ} \cong \overline{GH}$

[A2]



Given:

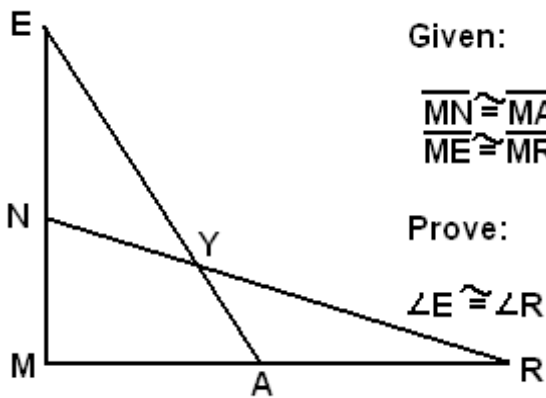
$$\overline{MA} \cong \overline{AH}$$

\overline{AT} bisects $\angle MAH$

Prove:

$$\overline{MT} \cong \overline{TH}$$

[A3]



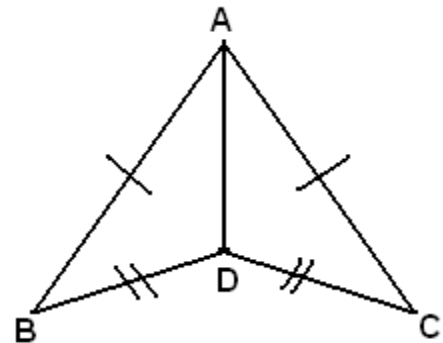
Given:

$$\begin{aligned} \overline{MN} &\cong \overline{MA} \\ \overline{ME} &\cong \overline{MR} \end{aligned}$$

Prove:

$$\angle E \cong \angle R$$

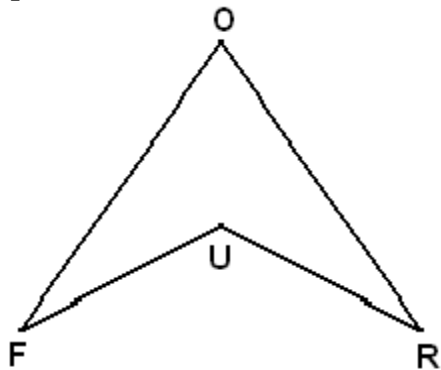
[A4]



Given: Picture

Prove: $\angle B \cong \angle C$

[A5]



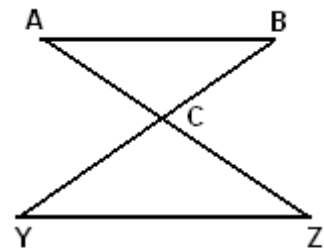
Given:

$$\begin{aligned} \overline{FO} &\cong \overline{OR} \\ \overline{UF} &\cong \overline{UR} \end{aligned}$$

Prove:

$$\angle F \cong \angle R$$

[A6]



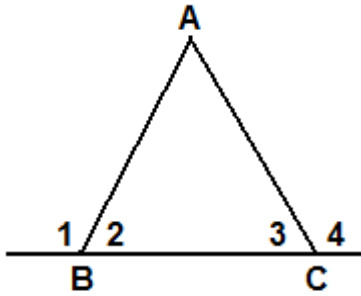
Given: $\angle B \cong \angle Y$

C is the midpoint of \overline{BY}

Prove: $\overline{AB} \cong \overline{YZ}$

“Type B” Proofs

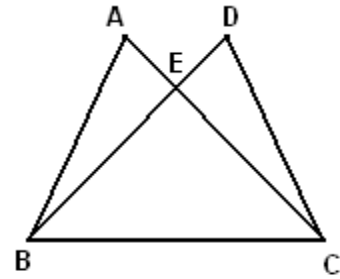
[B1]



Given: $\angle 1 \cong \angle 4$

Prove: $\overline{AB} \cong \overline{AC}$

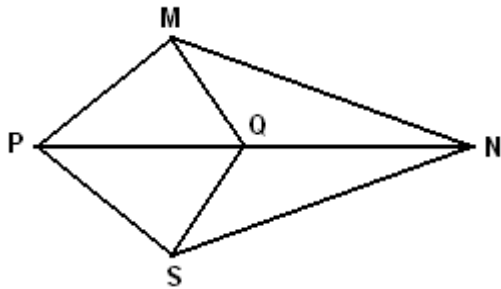
[B2]



Given: $\overline{AB} \cong \overline{DC}$
 $\overline{AC} \cong \overline{DB}$

Prove: $\triangle EBC$ is isosceles

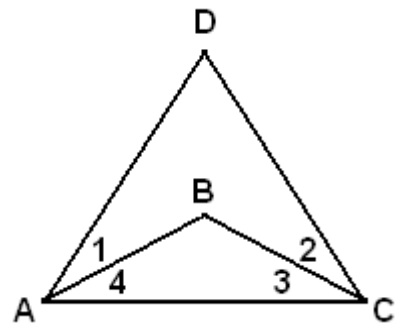
[B3]



Given: $\overline{MN} \cong \overline{NS}$
 $\overline{MP} \cong \overline{PS}$

Prove: $\angle MQP \cong \angle SQP$

[B4]



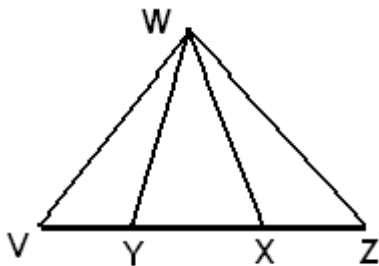
Given:

$\overline{AD} \cong \overline{DC}$
 $\overline{BA} \cong \overline{BC}$

Prove:

$\angle 1 \cong \angle 2$

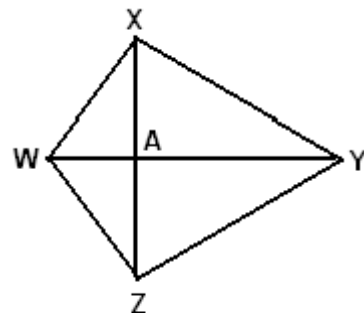
[B5]



Given: $\overline{VW} \cong \overline{WZ}$
 $\overline{VY} \cong \overline{XZ}$

Prove: $\triangle WYX$ is isosceles

[B6]

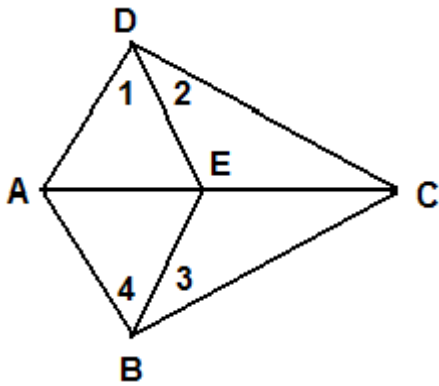


Given: $\overline{WX} \cong \overline{WZ}$
 $\overline{XY} \cong \overline{ZY}$

Prove: $\triangle XAY \cong \triangle ZAY$

“Type C” Proofs

[C1]



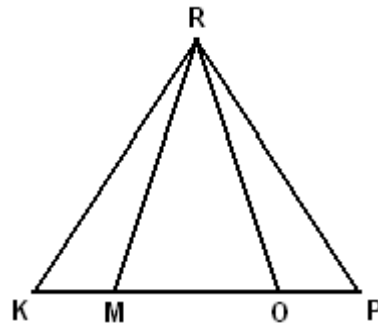
Given:

- $\angle 4 \cong \angle 1$
- $\angle 2 \cong \angle 3$
- $\angle DAC \cong \angle 1$
- $\angle CAB \cong \angle 4$

Prove:

$$\overline{CD} \cong \overline{CB}$$

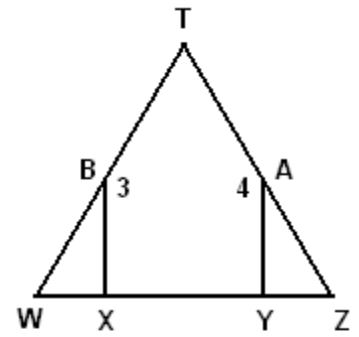
[C2]



Given: $\overline{RM} \cong \overline{RO}$
 $\angle KRM \cong \angle PRO$

Prove: $\overline{KM} \cong \overline{PO}$

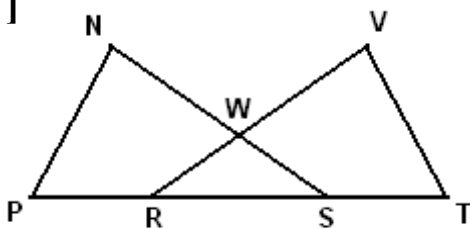
[C3]



Given: $\angle 3 \cong \angle 4$
 $\overline{BX} \cong \overline{AY}$
 $\overline{BW} \cong \overline{AZ}$

Prove: $\overline{WT} \cong \overline{ZT}$

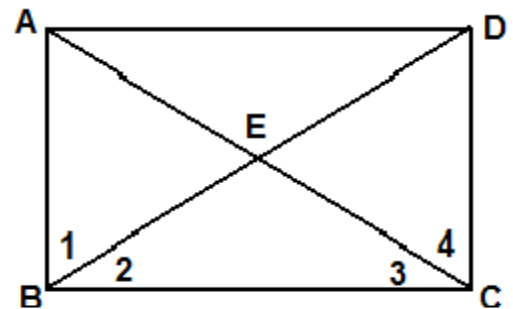
[C4]



Given: $\overline{PR} \cong \overline{ST}$
 $\overline{NP} \cong \overline{VT}$
 $\angle P \cong \angle T$

Prove: $\overline{WR} \cong \overline{WS}$

[C5]

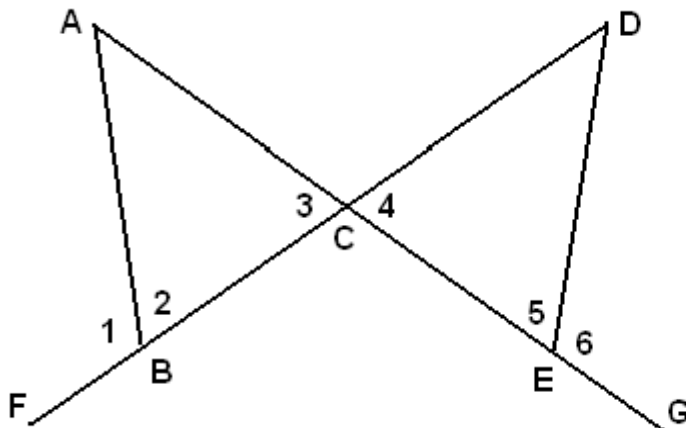


Given:

- $\angle 1$ is complementary to $\angle 2$
- $\angle 3$ is complementary to $\angle 4$
- $\angle 1 \cong \angle 4$

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

[C6]



Given:

$$\angle 1 \cong \angle 6$$

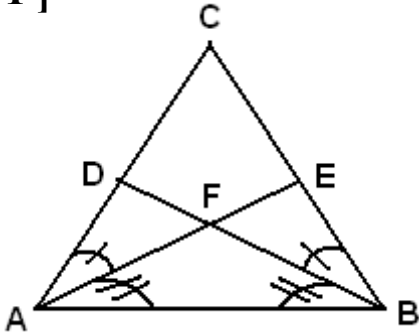
$$\overline{BC} \cong \overline{EC}$$

Prove:

$$\overline{AB} \cong \overline{DE}$$

“Type D” Proofs

[D1]

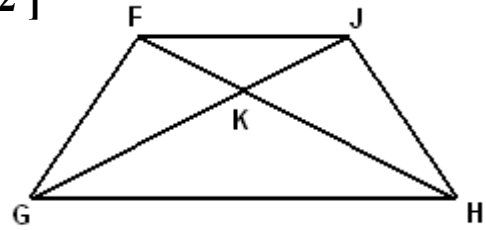


Prove:

$$\triangle ABD \cong \triangle BAE$$

$$\overline{AC} \cong \overline{BC}$$

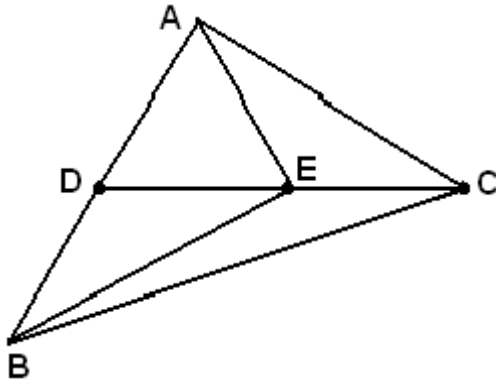
[D2]



Given: $\overline{FG} \cong \overline{JH}$
 $\angle FGH \cong \angle JHG$

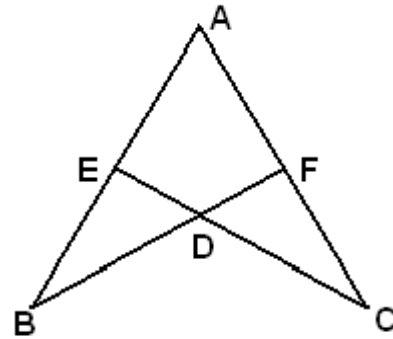
Prove: $\overline{FK} \cong \overline{JK}$

[D3]



Given: $\overline{AD} \cong \overline{BD} \cong \overline{AE}$ $\overline{DE} \cong \overline{EC}$
Prove: $\overline{AC} \cong \overline{BE}$

[D4]



Given: $\overline{AB} \cong \overline{AC}$
 $\angle ABF \cong \angle ACE$

Prove: $\overline{BF} \cong \overline{CE}$ and
 $\overline{DE} \cong \overline{DF}$