Gallery Walk Activity

You and your partners will make a poster of a proof on the poster paper provided. On the poster, you should include...

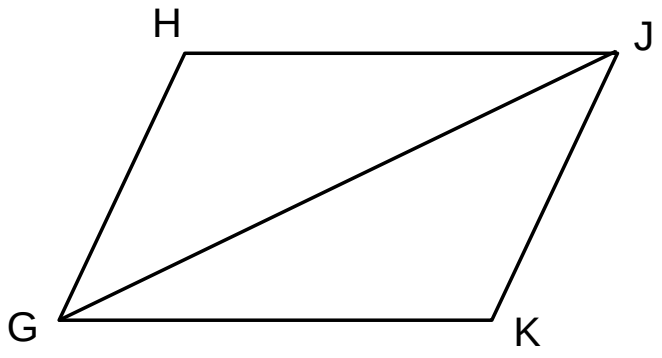
- the diagram with your *markings* clearly labeled
- the *given* information
- what you are trying to *prove*
- *a two column proof* with statements and reasons that show why the triangles are congruent

Feel free to be creative and add color! However, the most important thing is that your proof is complete and correct! After each proof is posted to the walls, you will walk through the gallery with your partners.

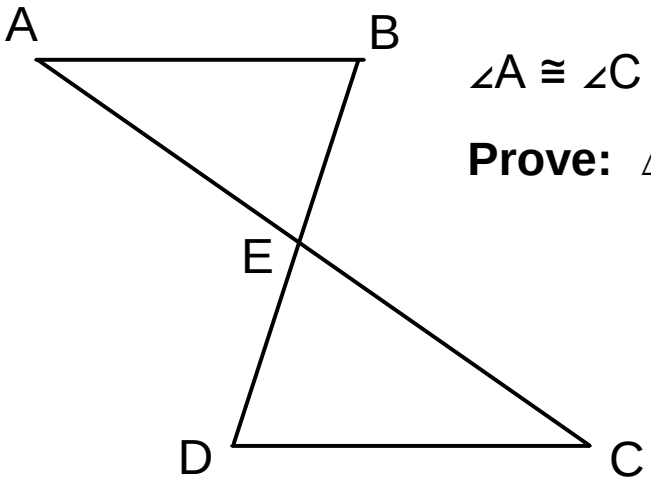
#1

Given: $\overline{HJ} \parallel \overline{GK}$; $\overline{HJ} \cong \overline{GK}$

Prove: $\Delta GHJ \cong \Delta JKG$



#2



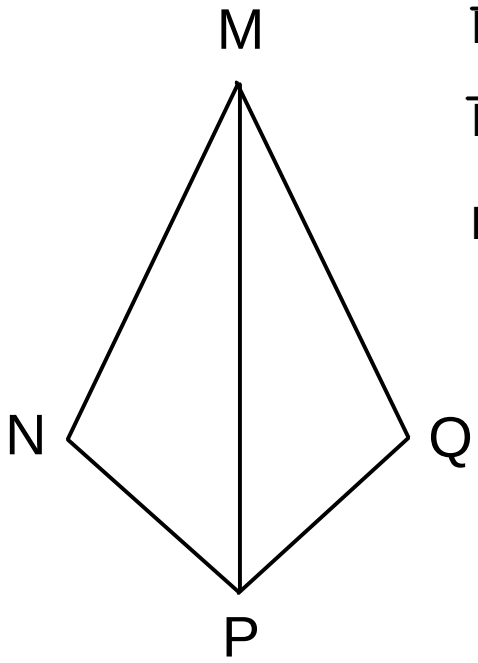
Given:

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

$\angle A \cong \angle C$

Prove: $\Delta ABE \cong \Delta CDE$

#3



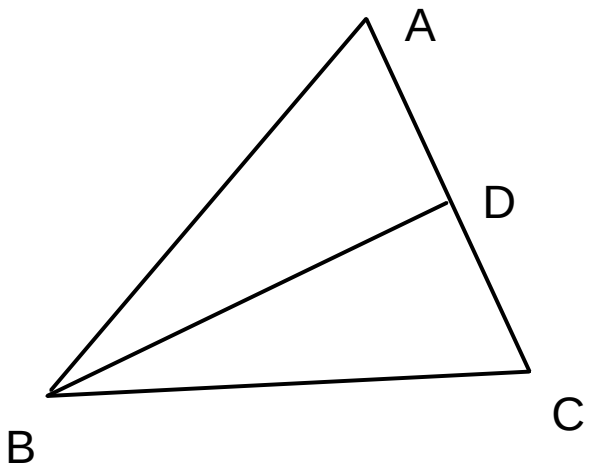
Given:

$\overline{PM}$ bisects $\angle NPQ$;

$\overline{NP} \cong \overline{QP}$

Prove: $\Delta MPN \cong \Delta MPQ$

#4

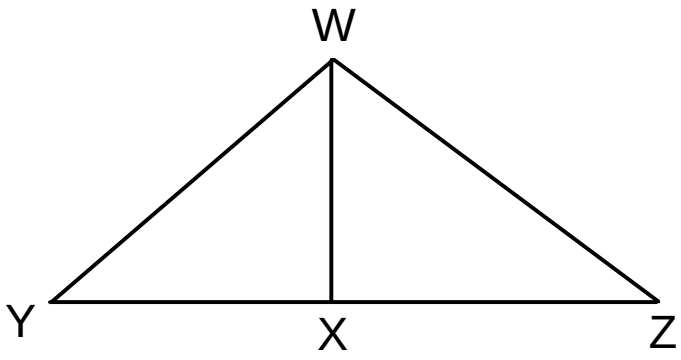


Given: $\overline{AB} \cong \overline{CB}$;

D is the midpoint of $\overline{AC}$

Prove: $\Delta ABD \cong \Delta CBD$

#5

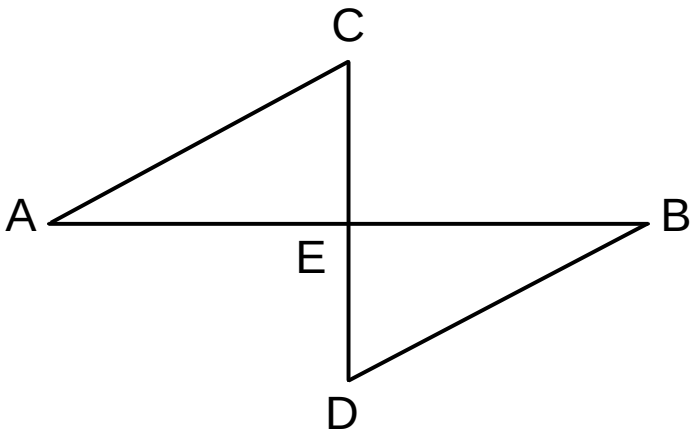


Given: $\overline{WX} \perp \overline{YZ}$;

$\overline{WY} \cong \overline{WZ}$

Prove: $\Delta WXY \cong \Delta WXZ$

#6



Given: $\overline{AB}$ is the perpendicular bisector of $\overline{CD}$;

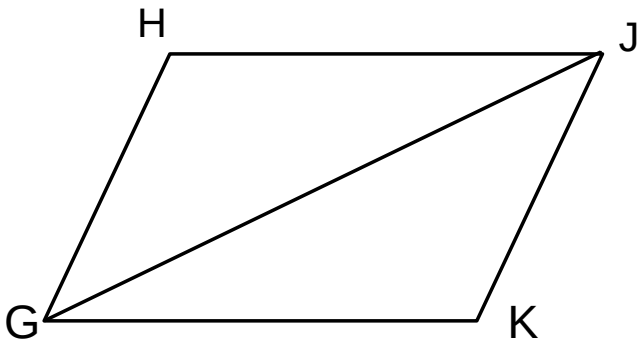
$\angle C \cong \angle D$

Prove: $\Delta ACE \cong \Delta BDE$

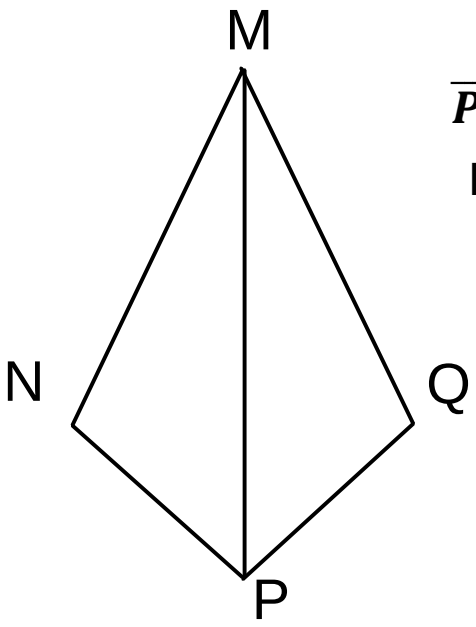
#7

Given: $\overline{HJ} \parallel \overline{GK}$; $\overline{HG} \cong \overline{JK}$

Prove: $\measuredangle H \cong \measuredangle K$



#8



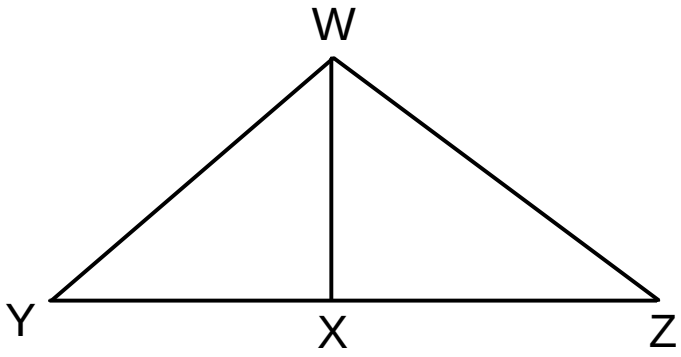
Given:

$\overline{MN} \cong \overline{QM}$

$\overrightarrow{PM}$ **bisects ∡NMQ**

Prove: ∡N ≅ ∡Q

#9

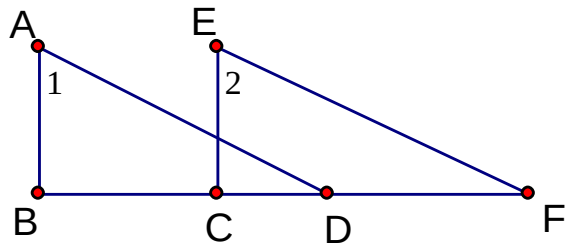


Given: $\overline{WX} \perp \overline{YZ}$;

$\overline{WY} \cong \overline{WZ}$

Prove: $\Delta WXY \cong \Delta WXZ$

10



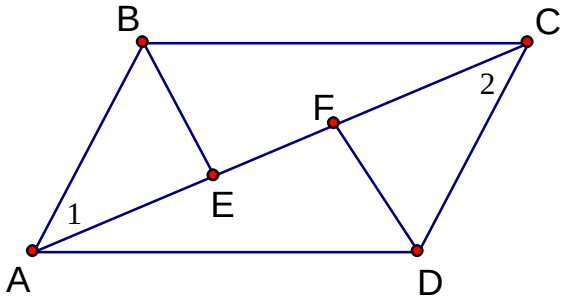
Given: ∡1 ≅ ∡2

∡B ≅ ∡ECF

$\overline{BD} \cong \overline{CF}$

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

#11



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

$\overline{AB} \,//\, \overline{CD}$

$\overline{AE} \cong \overline{CF}$

Prove: $\overline{BE} \cong \overline{DF}$