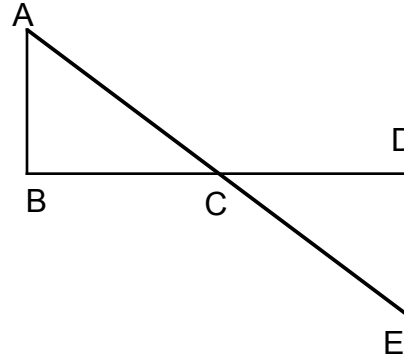


**Geometry****Proofs #1****Name:**

Do the proofs below IN YOUR NOTEBOOK. Be sure to copy diagram and givens.

1. Given:  $\overline{AB} \perp \overline{BD}$ ,  $\overline{DE} \perp \overline{BD}$ ,  $\overline{AB} \cong \overline{DE}$

Prove:  $\triangle ABC \cong \triangle EDC$

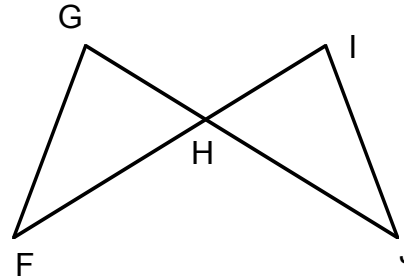


2. Given: C mdpt  $\overline{BD}$ , C mdpt  $\overline{AE}$

Prove:  $\triangle ABC \cong \triangle EDC$

3. Given:  $\angle F \cong \angle J$ ,  $\overline{FH} \cong \overline{HJ}$

Prove:  $\triangle GHF \cong \triangle IHJ$

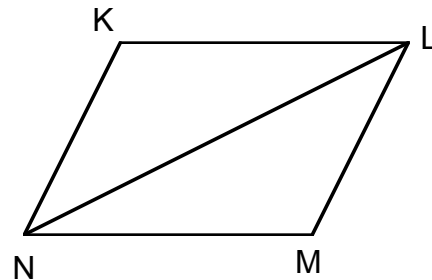


4. Given:  $\overline{GH} \cong \overline{HI}$ ,  $\overline{FH} \cong \overline{HJ}$

Prove:  $\triangle GHF \cong \triangle IHJ$

5. Given:  $\angle KLN \cong \angle MNL$ ,  $\overline{KL} \cong \overline{MN}$

Prove:  $\triangle KLN \cong \triangle MNL$

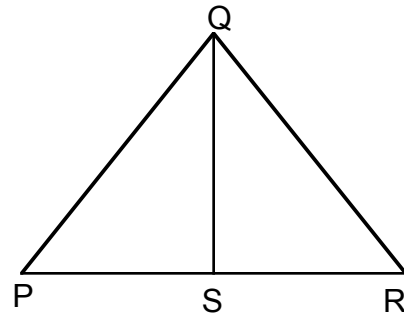


6. Given:  $\angle KLN \cong \angle MNL$ ,  $\angle KNL \cong \angle MLN$

Prove:  $\triangle KLN \cong \triangle MNL$

7. Given:  $\overline{QS}$  bisects  $\angle PQR$ ,  $\angle P \cong \angle R$

Prove:  $\triangle PSQ \cong \triangle RSQ$



8. Given:  $\overline{QS} \perp \overline{PR}$ ,  $\overline{QS}$  bisects  $\angle PQR$

Prove:  $\triangle PSQ \cong \triangle RSQ$