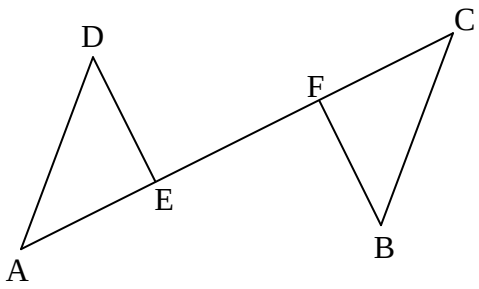
Name_____Per._____Date_____
Geometry Proofs Worksheet

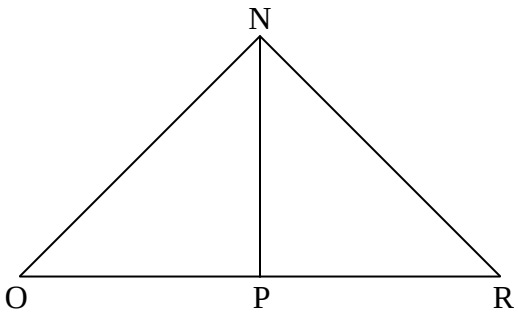
1. **Given**: $\overline{AE} \cong \overline{FC}$; $\overline{DE} \perp \overline{AC}$; $\overline{BF} \perp \overline{AC}$; $\overline{AD} \parallel \overline{BC}$;

   Prove: $\Delta ADE \cong \Delta CBF$

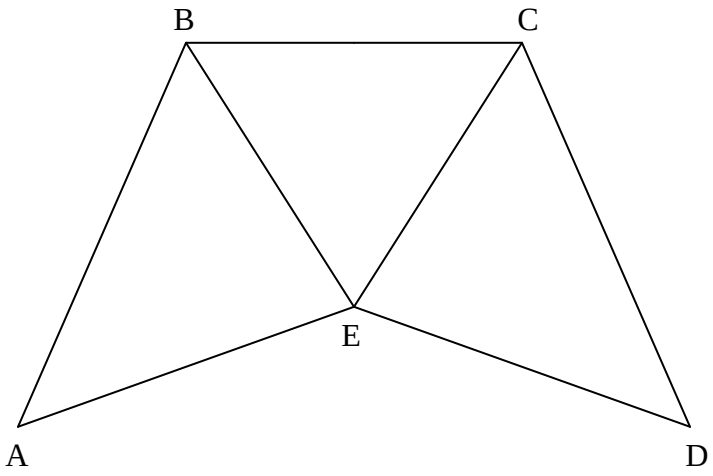


2. **Given:** $\angle NPO \cong \angle NPR$;
P is the midpt. of $\overline{OR}$

Prove: $\angle ONP \cong \angle RNP$

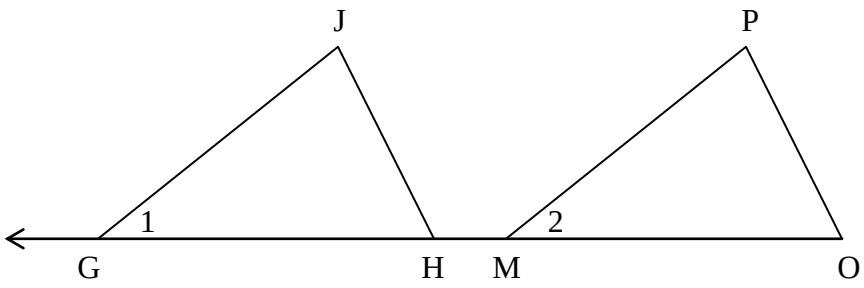


3. **Given:** ΔBEC is equilateral
$\angle BEA \cong \angle CED$
$\overline{AE} \cong \overline{BE}$; $\overline{ED} \cong \overline{EC}$;
Prove: $\Delta ABE \cong \Delta DCE$

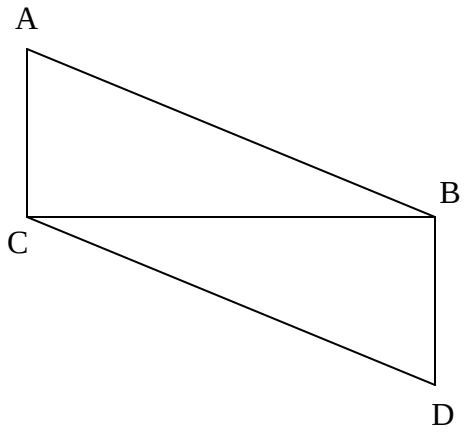


4. **Given:** $\overline{JH} \parallel \overline{PO}$;
$\angle 1 \cong \angle 2$
$\overline{GM} \cong \overline{HO}$

Prove: $\angle J \cong \angle P$



5. **Given**: $\overline{AC} \parallel \overline{BD}$; $\overline{AB} \parallel \overline{CD}$
   Prove: $\overline{AB} \cong \overline{CD}$



6. **Given**: $\overline{NL}$ bisects $\overline{KO}$; M is the midpoint of $\overline{NL}$
   Prove: $\Delta KLM \cong \Delta ONM$