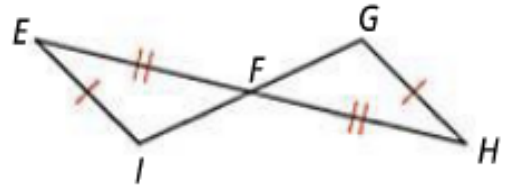


Name: _____ Date: _____ Band: _____
Geometry

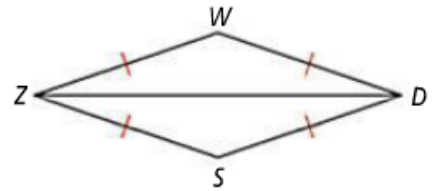
Triangle Proofs Practice

Write a proof.

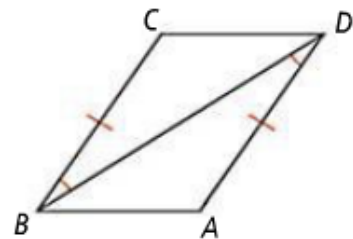
1. **Given:** $\overline{IE} \cong \overline{GH}$, $\overline{EF} \cong \overline{HF}$, F is the midpoint of \overline{GI}
Prove: $\triangle EFI \cong \triangle HFG$



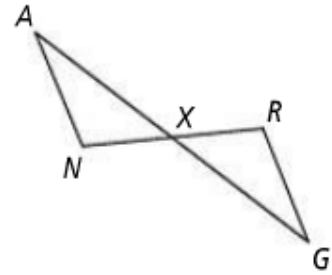
2. **Given:** $\overline{WZ} \cong \overline{ZS} \cong \overline{SD} \cong \overline{DW}$
Prove: $\triangle WZD \cong \triangle SDZ$



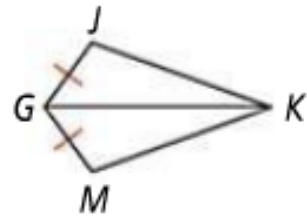
3. **Given:** $\overline{BC} \cong \overline{DA}$, $\angle CBD \cong \angle ADB$
Prove: $\triangle BCD \cong \triangle DAB$



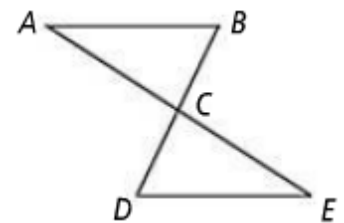
4. **Given:** X is the midpoint of \overline{AG} and \overline{NR}
Prove: $\triangle ANX \cong \triangle GRX$



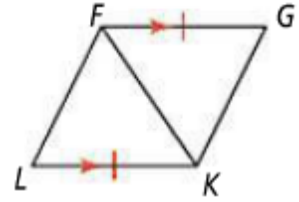
5. **Given:** \overline{GK} bisects $\angle JGM$, $\overline{GJ} \cong \overline{GM}$
Prove: $\triangle GJK \cong \triangle GMK$



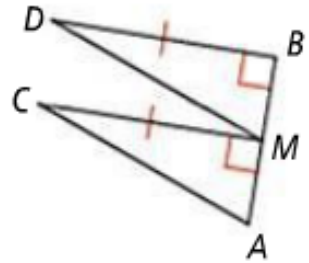
6. **Given:** \overline{AE} and \overline{BD} bisect each other
Prove: $\triangle ACB \cong \triangle ECD$



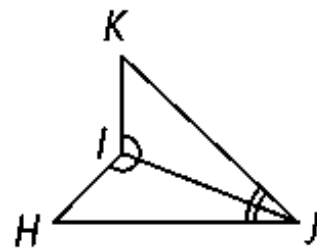
7. **Given:** $\overline{FG} \parallel \overline{KL}, \overline{FG} \cong \overline{KL}$
Prove: $\triangle FGK \cong \triangle KLF$



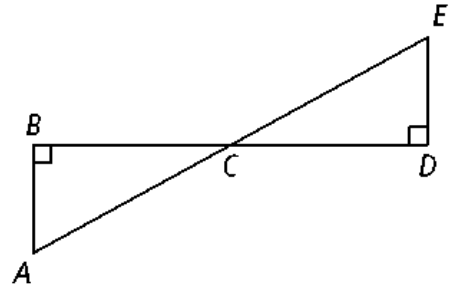
8. **Given:** $\overline{AB} \perp \overline{CM}, \overline{AB} \perp \overline{DB}, \overline{CM} \cong \overline{DB}, M$ is the midpoint of \overline{AB}
Prove: $\triangle AMC \cong \triangle MBD$



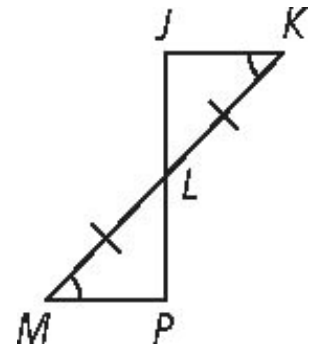
9. **Given:** $\angle HIJ \cong \angle KIJ, \angle IJK \cong \angle IJK$
Prove: $\triangle HIJ \cong \triangle KIJ$



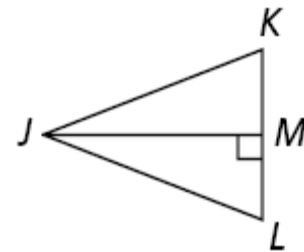
10. Given: $\angle B$ and $\angle D$ are right angles. \overline{AE} bisects \overline{BD} .
Prove: $\triangle ABC \cong \triangle EDC$



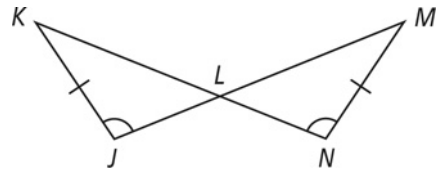
11. Given: $\angle K \cong \angle M$, $\overline{KL} \cong \overline{ML}$
Prove: $\triangle JKL \cong \triangle PML$



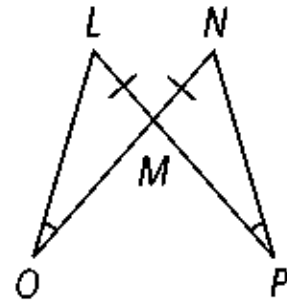
12. Given: \overline{JM} bisects $\angle J$, $\overline{JM} \perp \overline{KL}$
Prove: $\triangle JMK \cong \triangle JML$



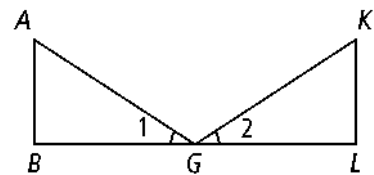
13. Given: $\overline{KJ} \cong \overline{MN}$, $\angle KJL \cong \angle MNL$
Prove: $\triangle JKL \cong \triangle NML$



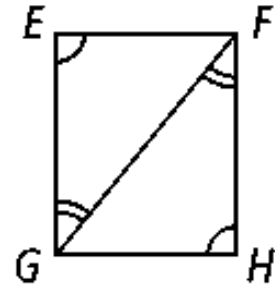
14. Given: $\angle LOM \cong \angle NPM$, $\overline{LM} \cong \overline{NM}$
Prove: $\triangle LOM \cong \triangle NPM$



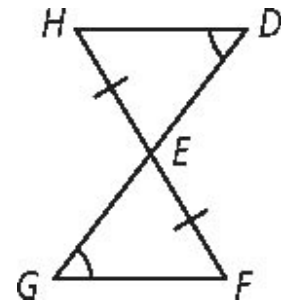
15. Given: $\angle 1 \cong \angle 2$, $\overline{AB} \perp \overline{BL}$, $\overline{KL} \perp \overline{BL}$, $\overline{AB} \cong \overline{KL}$
Prove: $\triangle ABG \cong \triangle KLG$



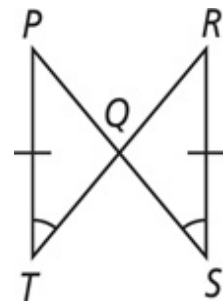
16. Given: $\angle E \cong \angle H, \angle HFG \cong \angle EGF$
 Prove: $\triangle EGF \cong \triangle HFG$



17. Given: $\angle D \cong \angle G, \overline{HE} \cong \overline{FE}$
 Prove: $\triangle EFG \cong \triangle EHD$



17. Given: $\overline{PT} \cong \overline{RS}, \angle PTR \cong \angle RSP$
 Prove: $\triangle PQT \cong \triangle RQS$



18. Given: \overline{BD} is the angle bisector of $\angle ABC$ and $\angle ADC$.
Prove: $\triangle ABD \cong \triangle CBD$

