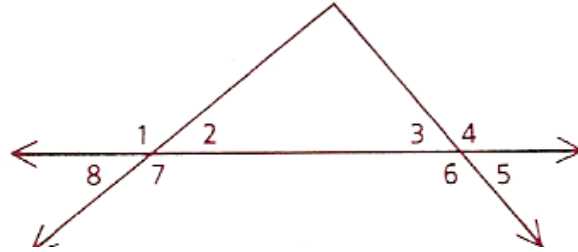


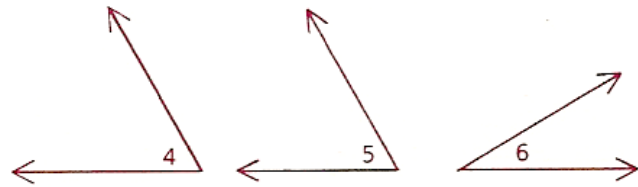
2.8 Complementary & Supplementary Angles

1. Given: $\angle 2$ is comp. to $\angle 3$
 $m\angle 4 = 131$
 Find: The measures of all the numbered angles.



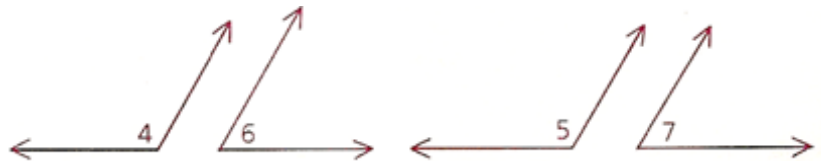
2. Given: $\angle 4$ is comp. to $\angle 6$
 $\angle 5$ is comp. to $\angle 6$

Explain why $\angle 4 \cong \angle 5$.



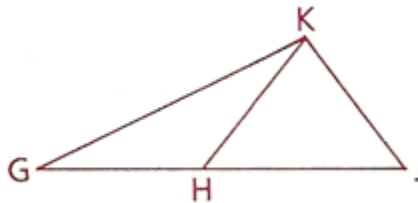
3. Given: $\angle 4$ is supp. to $\angle 6$
 $\angle 5$ is supp. to $\angle 7$
 $\angle 4 \cong \angle 5$

Explain why $\angle 6 \cong \angle 7$.



4. Given: Diagram as shown

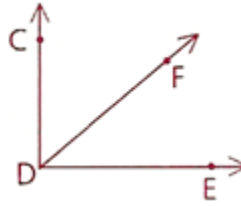
Explain why $\angle GHK$ is supp. to $\angle KHJ$.



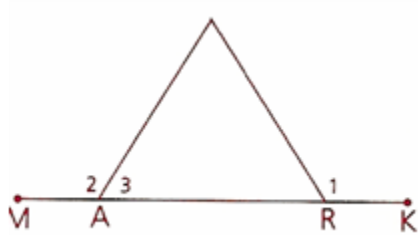
Continues on back

Two-Column Proof Problems:

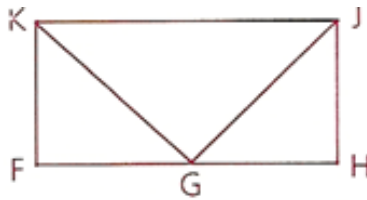
5. Given: $\overrightarrow{CD} \perp \overrightarrow{DE}$
 Prove: $\angle CDF$ is comp. to $\angle FDE$



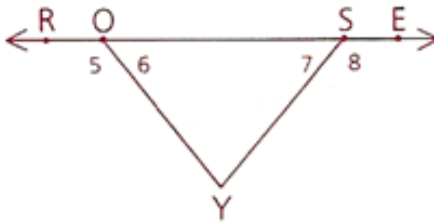
6. Given: $\angle 1 \cong \angle 2$
 Prove: $\angle 1$ is supp. to $\angle 3$



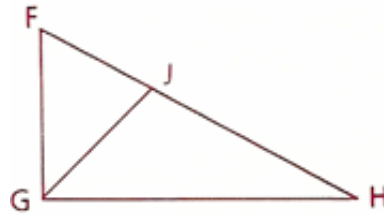
7. Given: $\angle FKJ$ is a right \angle
 $\angle HJK$ is a right \angle
 $\angle GKJ \cong \angle GJK$
 Prove: $\angle FKG \cong \angle HJG$



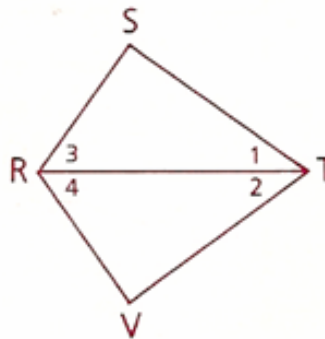
8. Given: Diagram as shown
 $\angle 6 \cong \angle 7$
 Prove: $\angle 5 \cong \angle 8$



9. Given: $\angle F$ is comp. to $\angle FGJ$
 $\angle H$ is comp. to $\angle HGJ$
 \overrightarrow{GJ} bisects $\angle FGH$
 Prove: $\angle F \cong \angle H$



10. Given: $\angle 1$ is comp. to $\angle 4$
 $\angle 2$ is comp. to $\angle 3$
 \overrightarrow{RT} bisects $\angle SRV$
 Prove: \overrightarrow{TR} bisects $\angle STV$



PROOFS MUST BE DONE ON PROOF PAPER.