

Name _____

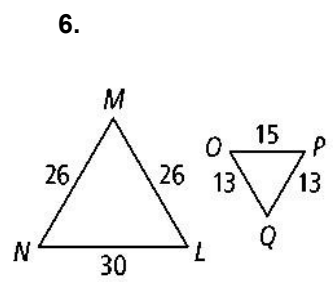
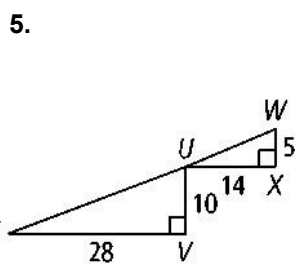
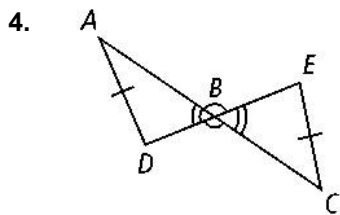
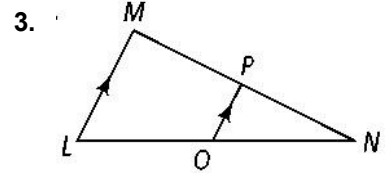
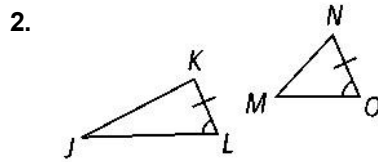
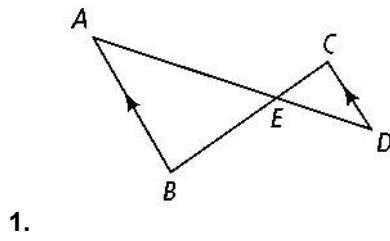
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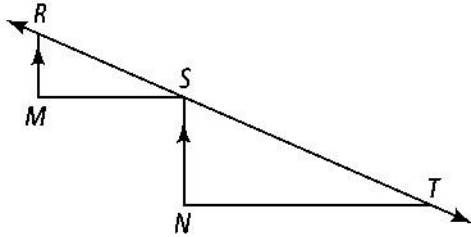
HW-32

Proving Triangles Similar

Determine whether the triangles are similar. If so, write a similarity statement and name the postulate or theorem you used. If not, explain.

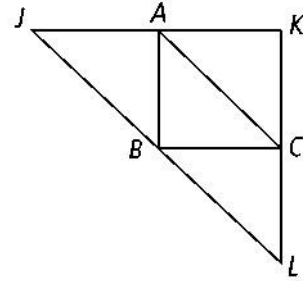


7. **Given:** $\underline{RM} \parallel \underline{SN}$, $\angle R \cong \angle MS$,
 $\angle S \cong \angle NT$
Prove: $\triangle RSM \sim \triangle STN$



8. **Given:** \overline{A} bisects \overline{JK} , C bisects \overline{KL} , B bisects \overline{JL}

Prove: $\triangle JKL \sim \triangle CBA$



9. A 1.4-m tall child is standing next to a flagpole. The child's shadow is 1.2 m long. At the same time, the shadow of the flagpole is 7.5 m long. How tall is the flagpole?