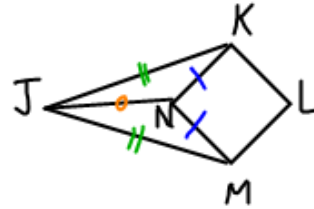


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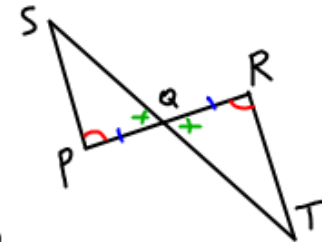
WARMUP: Write a two-column proof.

1. Given: $NKLM$ is a square
 $\overline{JK} \cong \overline{JM}$
 Prove: $\triangle JKN \cong \triangle JMN$



Statement	Reason
① $NKLM$ is a sq.	① Given
② $\overline{NK} \cong \overline{NM}$	② If a quadrilateral is a square, then all its sides are \cong .
③ $\overline{JK} \cong \overline{JM}$	③ Given
④ $\overline{JN} \cong \overline{JN}$	④ Reflexive Property of segments
⑤ $\triangle JKN \cong \triangle JMN$	⑤ SSS (2, 3, 4)

2. Given: Q is the midpt. of \overline{PR} .
 $\angle P \cong \angle R$
 Prove: $\triangle SPQ \cong \triangle TRQ$



Statement	Reason
① Q is midpt of \overline{PR}	① Given
② $\overline{PQ} \cong \overline{RQ}$	② If a pt. is a midpt. of a segment, then it \div the segment into 2 \cong segments.
③ $\angle P \cong \angle R$	③ Given
④ $\angle SQP \cong \angle TQR$	④ Vertical \angle s are \cong .
⑤ $\triangle SPQ \cong \triangle TRQ$	⑤ ASA (3, 2, 4)