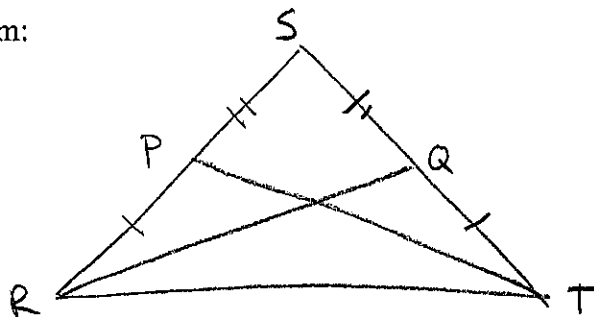


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Diagram:



Given: $RP = TQ$
 $PS = QS$

Prove: $RS = TS$

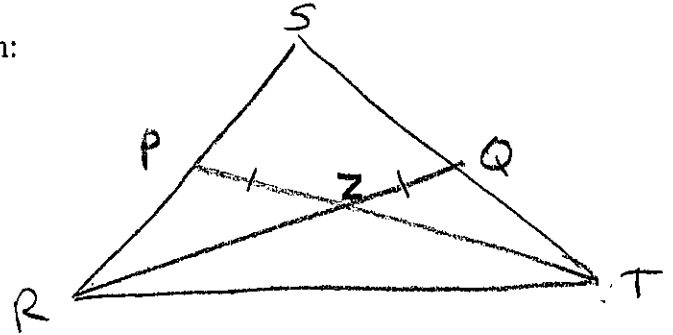
Statement	Reason
1. $RP = TQ ; PS = QS$	1. Given
2. $RP + PS = QT + QS$	2. Add'n Prop. =
3. $RP + PS = RS ; QT + QS = ST$	3. Seg. Add'n Post.
4. $RS = TS$	4. Subst.

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Diagram:



Given: $RQ = TP$
 $ZQ = ZP$

Prove: $RZ = TZ$

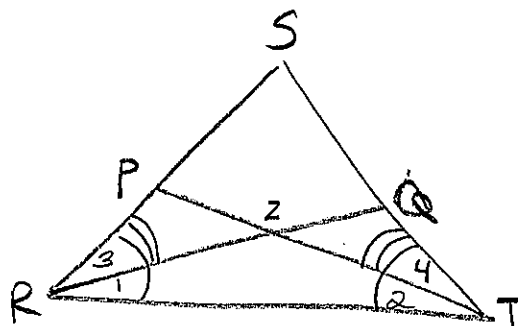
Statement	Reason
1. $RQ = TP$; $ZQ = ZP$	1. Given
2. $RZ + ZQ = RQ$	2. Seg. Add'n Post.
$TZ + ZP = TP$	
3. $RZ + ZQ = TZ + ZP$	3. Subst.
4. $RZ = TZ$	4. Sub. Prop. =

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Diagram:



Given: $m\angle SRT = m\angle STR$
 $m\angle 3 = m\angle 4$

Prove: $m\angle 1 = m\angle 2$

Statement	Reason
1. $m\angle SRT = m\angle STR$	1. Given
$m\angle 3 = m\angle 4$	
2. $m\angle 1 + m\angle 3 = m\angle SRT$	2. \angle Add'n Post.
$m\angle 2 + m\angle 4 = m\angle STR$	
3. $m\angle 1 + m\angle 3 = m\angle 2 + m\angle 4$	3. Subst.
4. $m\angle 1 = m\angle 2$	4. Sub. Prop. =