- 9. Given: DW = ON
- Prove: DO = WN



Proof:

Statements

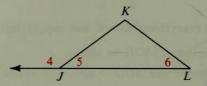
- 1. DW = ON
- 2. DW = DO + OW; $ON = \frac{?}{} + \frac{?}{}$
- 3. _?
- 4. OW = OW
- 5. _?_

Reasons

- 1. _?
- 2. _?_
- 3. Substitution Prop.
- 4. _?_
- 5. _?

10. Given:
$$m \angle 4 + m \angle 6 = 180$$

Prove: $m \angle 5 = m \angle 6$



Proof:

Statements

- 1. $m \angle 4 + m \angle 6 = 180$
- 2. $m \angle 4 + m \angle 5 = 180$
- 3. $m \angle 4 + m \angle 5 = m \angle 4 + m \angle 6$
- $4. \ m \angle 4 \qquad = m \angle 4$
- 5. _?_

Reasons

- 1. _?
- 2. _?
- 3. _?
- 4. _?_
- 5. _?

Copy everything shown and write a two-column proof.

B 11. Given: $m \angle 1 = m \angle 2$;

 $m \angle 3 = m \angle 4$

Prove: $m \angle SRT = m \angle STR$

12. Given: RP = TQ;

 $PS = Q\overline{S}$

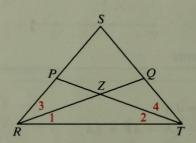
Prove: RS = TS

13. Given: RQ = TP; ZQ = ZP

Prove: RZ = TZ

14. Given: $m \angle SRT = m \angle STR$;

 $m \angle 3 = m \angle 4$ Prove: $m \angle 1 = m \angle 2$



Exs. 11-14