2.8 Geometric Proofs Guided No	tes	Geometry
2) Take the next	statement and run it to a "dead-end".  statement and run it to a "dead-end".  statements, look at the picture and determ	- Vertical L'S - shared sides/2's ine what you can assume.
<ul> <li>4) Look at the "dead-ends" toge</li> <li>Given: ∠A and ∠B are complem</li> <li>∠A ≅ ∠C</li> <li>Prove: ∠C and ∠B are complement</li> </ul>		Common
Statement	Reason	į.
DLA &LB are complementary  MLA+MLB = 90°  LA = LC  MLA = MLC  MLC+MLB=91  LC &LB are comp.  Given: \( \text{1}\) and \( \text{2}\) form a linear Prove: \( \text{1}\) and \( \text{2}\) are supplementary	pair.	2 'S.
Statement	Prason	
0 LIGL2 form a linear pair		
(2) LI SIZZ arc	2) Linear pairs	

Linear Pair : If two angles form a linear pair, then they are supplementary.

Given:  $\angle 1$  and  $\angle 2$  are right angles.

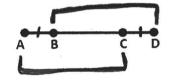
Prove:  $\angle 1 \cong \angle 2$ .

<b>^</b>	←——
1	2
$\qquad \qquad \Box \longrightarrow$	₩

## Statement Reason

- 1) 11 9 2 an right 2's.
- 2) LI=L2
- 1) Given
- 2) All right 2's on ≥.

Given:  $\overline{AC} \cong \overline{BD}$ Prove:  $\overline{AB} \cong \overline{CD}$ 



Statement	Reason
	100 2000 - 640°

- 1 AC= 50
- 2 AC = BD
- 3 AB+BC=AC BC+CD=BD
- 4 AB+BC=BC+CD
- (5) AB = CD
- @ AB = CD

- O Given
- Docf. of =
- 3) segment Add. post.
- 4) Substitution
- (5) Subtract. prop.
- 6 Def. of 2