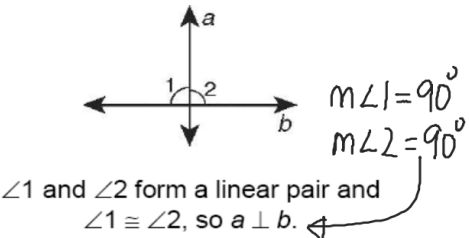
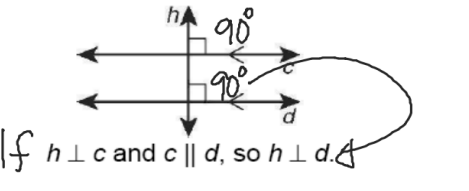
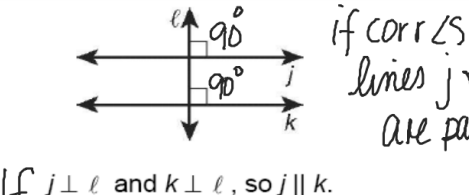


You can use the following theorems about perpendicular lines in your proofs.

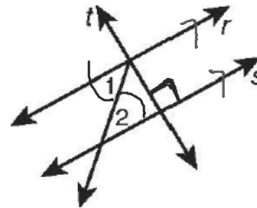
Theorem	Example
If two intersecting lines form a linear pair of congruent angles, then the lines are perpendicular.	
In a plane, if a transversal is perpendicular to one of two parallel lines, then it is perpendicular to the other line.	
If two coplanar lines are perpendicular to the same line, then the two lines are parallel to each other.	

5. Complete the two-column proof.

Given: $\angle 1 \cong \angle 2$, $s \perp t$

Prove: $r \perp t$

Proof:



Statements	Reasons
1. $\angle 1 \cong \angle 2$	1. Given
2. $r \parallel s$	2. If alternate interior angles are congruent, then lines are parallel
3. $s \perp t$	3. Given
4. $r \perp t$	4. If a line is \perp to 1 of 2 \parallel lines, then it is \perp to the other line also