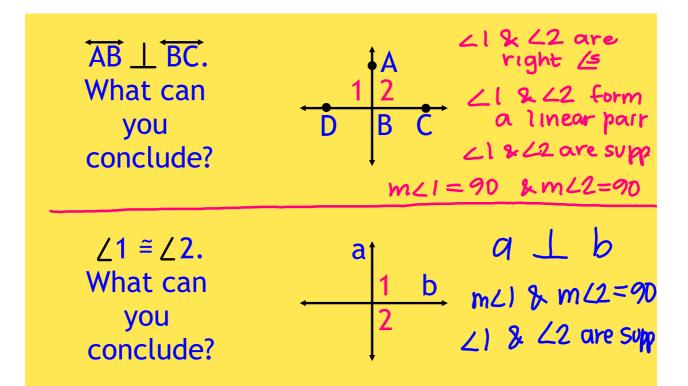
## 3.6 Prove Theorems About Perpendicular Lines

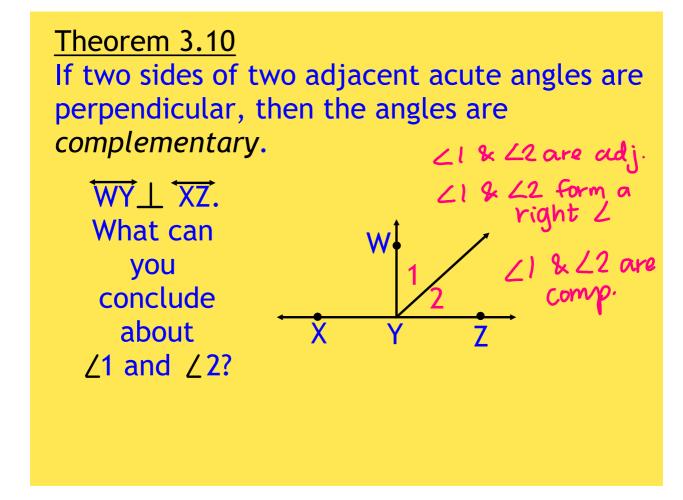
## Theorem 3.8

If two lines intersect to form a linear pair of congruent angles, then the lines are perpendicular.

## Theorem 3.9

If two lines are perpendicular, then they intersect to form four right angles.





<u>Theorem 3.11 Perpendicular Transversal Thm.</u> If a transversal is perpendicular to one of two parallel lines, then it is perpendicular to the other.

Theorem 3.12 Lines Perpendicular to a Transversal Theorem In a plane, if two lines are perpendicular to the same line, then they are parallel to each other.

