

Post. 3.4

If 2 lines are cut by a transversal so that the corr. $\angle$'s are $\cong$ then the lines are parallel.

Post. 3.5 Parallel Post.

**If there is a line and a pt. not on the line,
then there is exactly 1 line through the pt.
that is parallel to the line.**

Th. 3.5

If 2 lines are cut by a transversal so that the alt. ext. $\angle$'s are $\cong$, then the lines are parallel.

Th. 3.6

If 2 lines are cut by a transversal so that the cons. int. $\angle$'s are supp., then the lines are parallel.

Th. 3.7

If 2 lines are cut by a transversal so that the alt. int. $\angle$'s are $\cong$, then the lines are parallel.

Th. 3.8

In a plane, if 2 lines are $\perp$ to the same line, then they are parallel.

Given: $\angle 4 \cong \angle 3$

Line r bisects $\angle ABC$

Line a bisects $\angle DBE$

Prove: $a \parallel b$

