## Notes 3.2 – Proving Lines Parallel

Ex:

Ex:

## 1. Converse of Corresponding Angles

2. Converse of Alternate Interior

Angles

3. Converse of Same-side Interior Angles

4. Converse of Alternate Exterior Angles

5. Converse of Same-side Exterior Angles

1. If two lines and a transversal form corr. angles that are congruent, then the 2 lines are parallel.

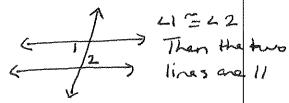
Ex: 

Z

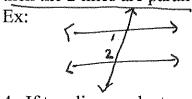
Z

If Z

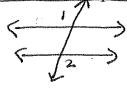
2. If two lines and a transversal form alt. int. angles that are congruent, then the 2 lines are parallel.



3. If two lines and a transversal form same-side int. angles that are supp., then the 2 lines are parallel.



4. If two lines and a transversal form alt. ext. angles that are congruent, then the 2 lines are parallel.



5. If two lines and a transversal form same-side ext. angles that are supp., then the 2 lines are parallel.

Ex:

