## 3.5 - Proofs with Parallel Lines

Lets see if we can use what we learned in level 4 to write some proofs

## Theorems about parallel lines

- 1. If two parallel lines are cut by a transversal, then alternate interior angles are congruent
- 2. If two parallel lines are cut by a transversal, then alternate exterior angles are congruent
- 3. If two parallel lines are cut by a transversal, then **corresponding angles** are congruent

4. If two parallel lines are cut by a transversal, then **same-side interior angles** are **supplementary** 















