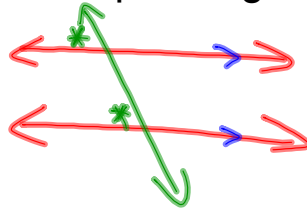
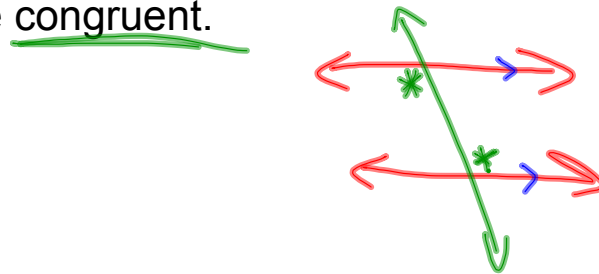


Corresponding Angle Postulate:

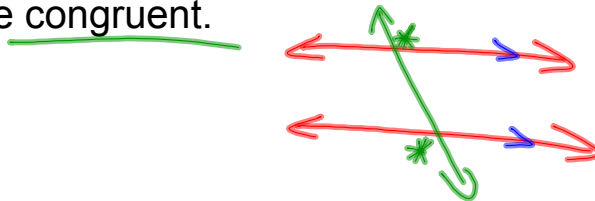
- * If 2 parallel lines are cut by a transversal, then each pair of corresponding angles are congruent.

**Alternate Interior Angle Theorem:**

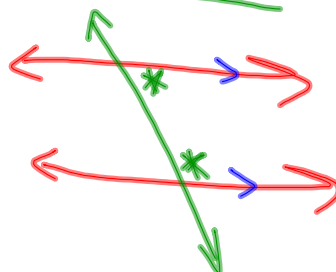
- * If 2 parallel lines are cut by a transversal, then each pair of alternate interior angles are congruent.

**Alternate Exterior Angle Theorem:**

- * If 2 parallel lines are cut by a transversal, then each pair of alternate exterior angles are congruent.

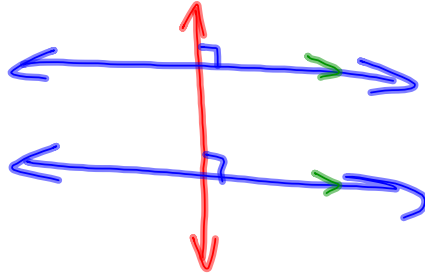
**Consecutive Interior Angle Theorem:**

- * If 2 parallel lines are cut by a transversal, then each pair of consecutive interior angles are supplementary. add up to 180

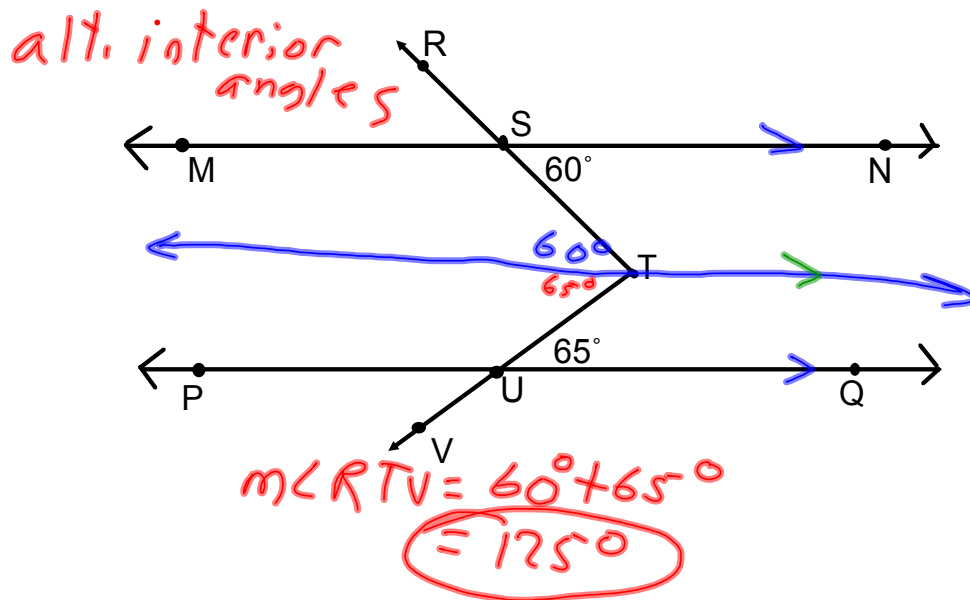


Perpendicular Transversal Theorem:

- * In a plane, if a line is perpendicular to one of two parallel lines, then it is perpendicular to the other.



1. What is the measure of $\angle RTV$?



2. If the $m\angle 5 = 2x - 10$, $m\angle 6 = 4(y - 25)$, and $m\angle 7 = x + 15$, find x and y .

