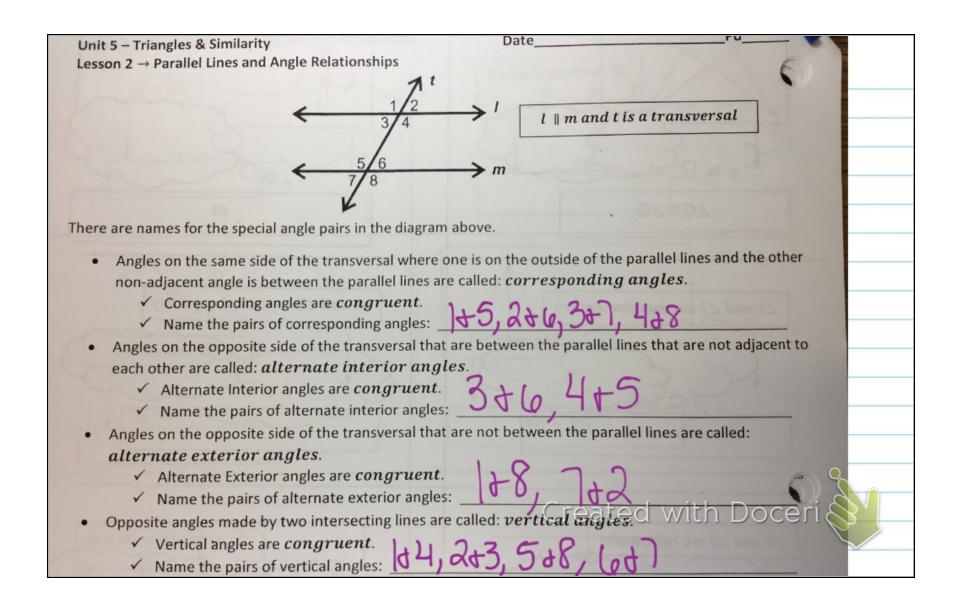
## Unit 5 Lesson a

Parallel Lines and Angle helationships

Created with Doceri



- Angles on the same side of the transversal that are between the parallel lines are called: consecutive or same - side interior angles.

  - ✓ Consecutive Interior angles are *supplementary*. 3+5, ✓ Name the pairs of consecutive interior angles:
- Angles that are adjacent and form a line are called a linear pair.

  - V Linear Pair angles are supplementary.

    Name the linear pairs: 182,5+6, 3+4, 2+4, 6+8, 8+), 341,
- The converse of a theorem is formed by interchanging what is given with what you are trying prove.

Ex#1:

Theorem: If  $\triangle ABC$  is a right triangle with  $\angle C$  as the right angle, then  $a^2 + b^2 = c^2$ 

Converse: If  $a^2 + b^2 = c^2$ , then  $\triangle ABC$  is a right triangle with  $\angle C$  as the right angle.

TEB then A

If A then B

Ex#2:

Theorem: If 2 parallel lines are cut by a transversal, then alternate interior angles are congruent.

Converse: If alternate interior angles are congruent, then the two lines cut by the transversal are par

Created with Doceria

