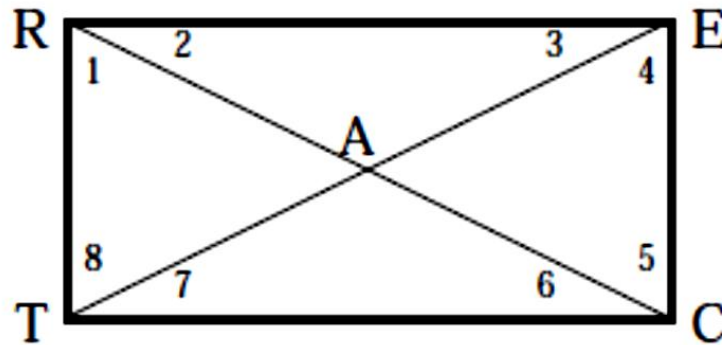


2. Answer the questions below about this rectangle. Then complete the theorems.



- Since RECT is a rectangle, what angles are congruent to $\angle TRE$?
- What is the interior angle sum of any quadrilateral?
- What is the interior angle measure of a rectangle?
- Name all pairs of perpendicular segments:
- Since RT and EC are both perpendicular to TC, what does the Two \perp 's Theorem say?
- Name four pairs of supplementary angles:
- How does the Converse of the Same-Side Interior Angle Theorem apply to this diagram?
- Give two different reasons (theorems) why $RE \parallel TC$:
- RECT is also a:
- Why is $RE = TC$?
- $RT = ?$
- Name three triangles congruent to $\triangle RTC$:
- Give two reasons those four triangles are congruent.
- Since RC and ET are corresponding parts of congruent triangles, they are:
- Name two distinct pairs of alternate interior angles:
- What kind of triangles are $\triangle CAT$ and $\triangle RAE$?
- Why are $\triangle TAR$ and $\triangle EAC$ isosceles?
- What do RC and ET do to each other?
- What kind of point is A?
- What properties does a rectangle share with an isosceles trapezoid?
- How does a rectangle differ from an isosceles trapezoid?
- Is a rectangle also an isosceles trapezoid? Why or why not?
- Is a rectangle a trapezoid? Why or why not?
- THEOREM: The diagonals of a rectangle are:
- THEOREM: All rectangles are:
- THEOREM: An equiangular parallelogram is a:

Math 3
Unit 6 Day 5 HW

Name: _____

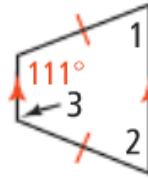
Date: _____

Directions: For questions #1-2, find the measure of each missing angle.

1.

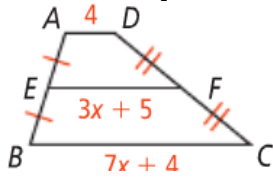


2.

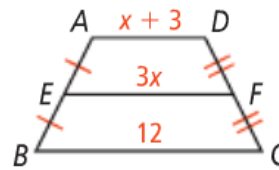


Directions: For questions #3-4, find x and the length of EF .

3.

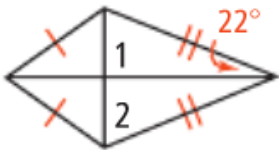


4.

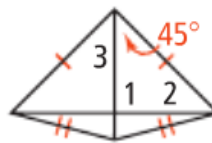


Directions: For questions #5-6, find the measures of the numbered angles in each kite.

5.



6.



Challenge Question: Solve for the unknown angle measures in the kite shown below.

