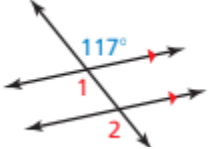


**3.2 Parallel Lines & Transversals DAY ONE CYU**

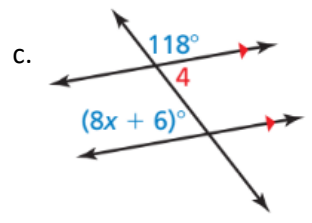
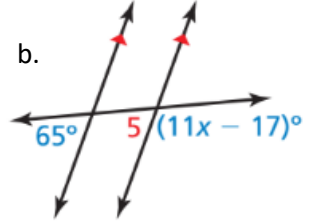
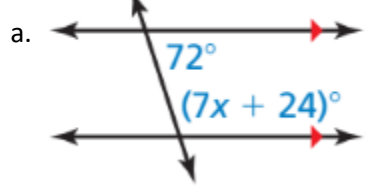
Use when you get it right all by yourself  
**S** Use when you did it all by yourself, but made a silly mistake  
**H** Use when you could do it alone with a little help from teacher or peer  
**G** Use when you completed the problem in a group  
**X** Use when a question was attempted but wrong (get help)  
**N** Use when a question was not even attempted

CONCEPTS	BASIC	INTERMEDIATE	ADVANCED
Corresponding Angles	1, 4, 5	4, 5	5, 7
Alternate Interior Angles (AIA)	5	3, 5	3, 5, 7
Alternate Exterior Angles (AEA)	5	5	5, 7
Same-Side Interior Angles (SSIA)	3, 5	2, 3, 5	2, 3, 5, 6, 7
Same-Side Exterior Angles (SSEA)	2, 5	3, 5	3, 5, 7
Consecutive Interior Angles	3, 5	2, 3, 5	2, 3, 5, 6, 7
Consecutive Exterior Angles	2, 5	3, 5	3, 5, 7
Vertical Angles	5	2	7
Linear Pair	5	2, 3	3, 7
Converse & Truth Value	9	9	9

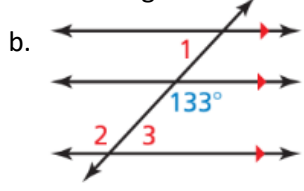
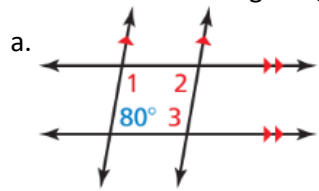
1. Tell which theorem you use in the image provided. Then determine the angle measure for 1 and 2.



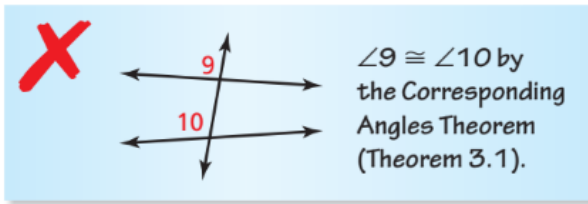
2. Find the value of x. Show your steps.



3. Find the measures of angles 1, 2, & 3. Explain your reasoning in words or algebraically.

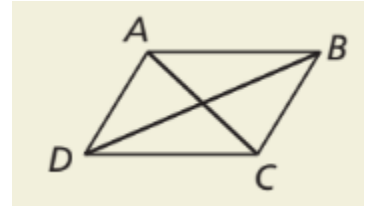


4. Describe & correct the error in the reasoning.



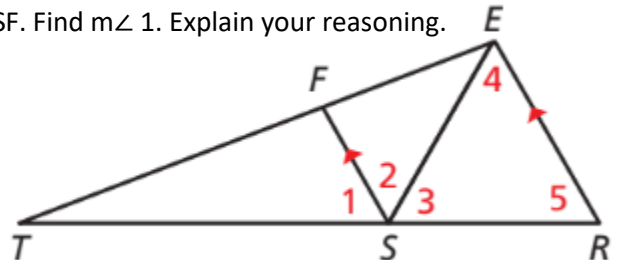
5. **HOW DO YOU SEE IT?** Use the diagram provided.

- Name two pairs of congruent angles when  $\overline{AD}$  &  $\overline{BC}$  are parallel. Explain your reasoning.
- Name two pairs of supplementary angles when  $\overline{AB}$  &  $\overline{DC}$  are parallel. Explain your reasoning.

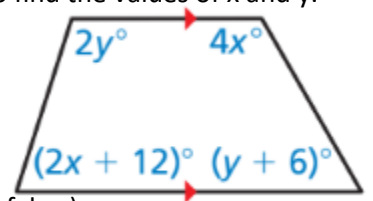


6. **CRITICAL THINKING:** Is it possible for consecutive interior angles to be congruent? Explain.

7. **REASONING:** In the diagram,  $\angle 4 \cong \angle 5$  and  $\overline{SE}$  bisects  $\angle RSF$ . Find  $m\angle 1$ . Explain your reasoning.



8. **MATHEMATICAL CONNECTIONS:** Write and solve a system of linear equations to find the values of  $x$  and  $y$ .



9. Write the converse of the conditional statement. Decide the truth-value (true or false.)

- If two angles are vertical angles, then they are congruent.
- If you go to the zoo, then you will see a tiger.
- If two angles form a linear pair, then they are supplementary.
- If it is warm outside, then we will go to the park.

**CYU Reflection:** How far can you go: basic, intermediate, or advanced?

**Rate your mastery level!**

How confident are you with the skills this CYU covered? Circle the score you would give yourself.

