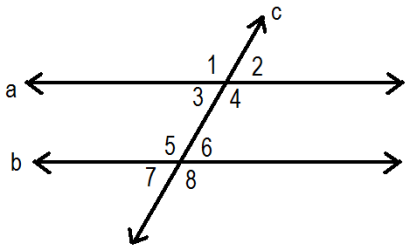
Name:_____ Date:_____ Period:_____

Chapter 3 Review

Use the diagram below for Questions 1-6



For questions 1-3: *Fill in the blanks*

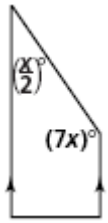
1. Angle 3 and Angle 5 are _____ angles.
2. Angle 1 and Angle 8 are _____ angles.
3. Angle 3 and Angle 7 are _____ angles.

For questions 4-6: *Circle the correct answer.*

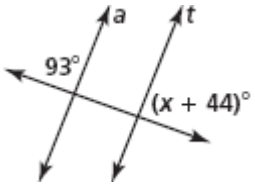
4. If a // b then Angle 4 and Angle 5 are (congruent or supplementary).
5. If a // b then Angle 2 and Angle 8 are (congruent or supplementary).
6. If a // b then Angle 3 and Angle 6 are (congruent or supplementary).

For Questions 7 and 8: *Find the value of x. Then find the measure of each angle.*

7.

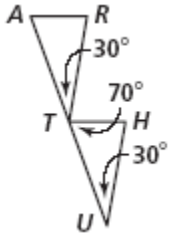


8.

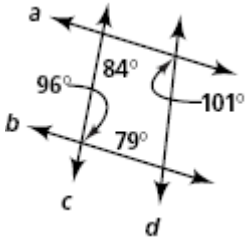


For Question 9 and 10: *Which lines or segments are parallel? Justify your answer.*

9.



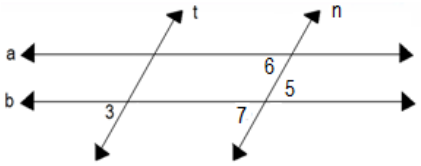
10.



11. Fill in the missing information in the proof below.

Given: t // n, $< 3 \cong < 6$

Prove: a // b



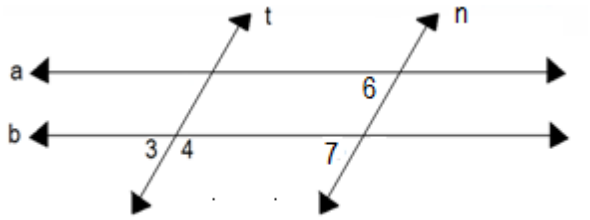
Statements	Reasons
1. _____	1. _____
2. $< 3 \cong < 7$	2. _____
3. a._____ b._____	3. Definition of Congruent Angles
4. _____	4. Substitution property of Equality
5. $< 6 \cong < 7$	5. _____
6. _____	6. _____

Name:_____ Date:_____ Period:_____

12. Write a two-column proof

Given: a // b, t // n

Prove: $\angle 3 \cong \angle 6$



Statements	Reasons