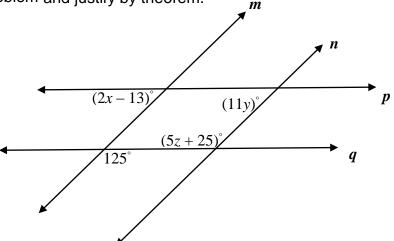
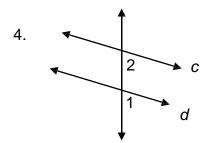
Name	Date	Period	
	Proving Parallel Lines		

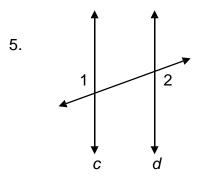
Find the values of x, y, and z in the figure below to ensure $m \parallel n$ and $p \parallel q$. Name each type of angle pair you used to solve each problem and justify by theorem.



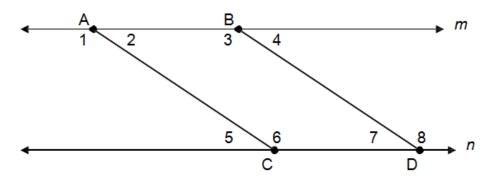
1. Find x-value	2. Find <i>y</i> -value	3. Find z-value
Type of Angle Pair	Type of Angle Pair	Type of Angle Pair

Name the angle pair modeled here.

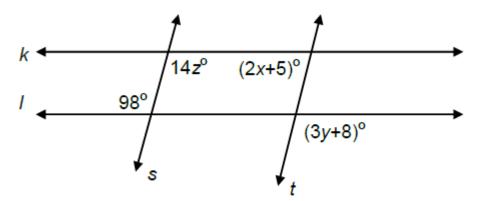




6. In the figure below $m \parallel n$, $AC \parallel BD$, $m \angle 1 = 148^{\circ}$ and the measure of the other angles.

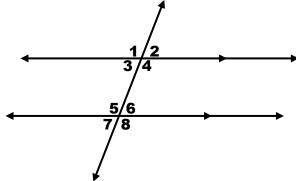


7. Find the values of x, y, and z in the figure below to ensure $k \parallel I$ and $s \parallel t$. Name each type of angle pair you used to solve each problem and justify by theorem.



6. Find x-value	7. Find <i>y</i> -value	8. Find z-value
Type of Angle Pair	Type of Angle Pair	Type of Angle Pair

Use the figure below to find the indicated values/measures in the problems that follow.



If $m\angle 1 = (11x + 2)^{\circ}$ and $m\angle 7 = (8x + 7)^{\circ}$, find the value of 'x' and the $m\angle 6$.

$$m \angle 6 =$$

10. x = _____

If $m\angle 2 = (4x - 7)^\circ$ and $m\angle 7 = (3x + 4)^\circ$, find the value of 'x' and the $m\angle 5$.

$$m \angle 5 =$$

11. x = _____

If $m\angle 3 = (5x + 12)^{\circ}$ and $m\angle 7 = (8x)^{\circ}$ find the value of 'x' and $m\angle 2$.

12. x = _____

If $m\angle 3 = (7x + 1)^{\circ}$ and $m\angle 8 = (19x - 3)^{\circ}$, find the value of 'x' and $m\angle 7$.

$$m \angle 7 = \underline{\hspace{1cm}}$$

ALWAYS, SOMETIMES, NEVER

Determine whether each of the following statements is ALWAYS, SOMETIMES, or NEVER true.

13.	Vertical angles are congruent.	
14.	Transversals intersect two or more lines at the same	e point.
15.	Corresponding angles are supplementary.	
16.	Linear pairs are supplementary.	