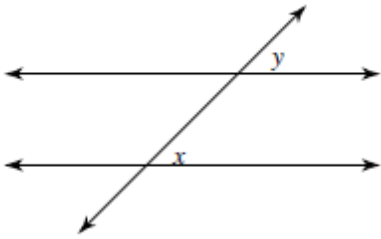
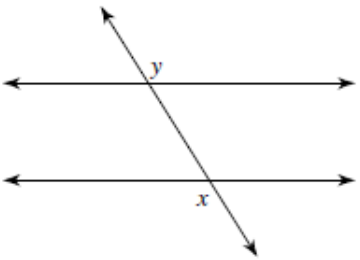
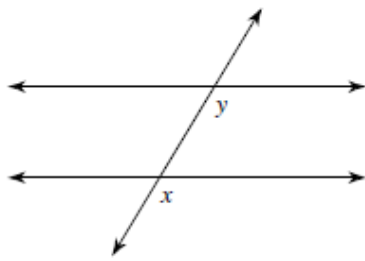
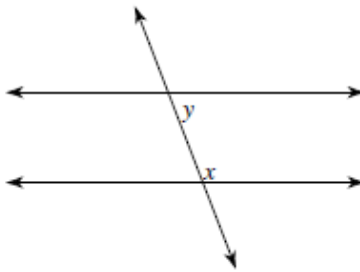


Math 3
Unit 6 Day 1 HW

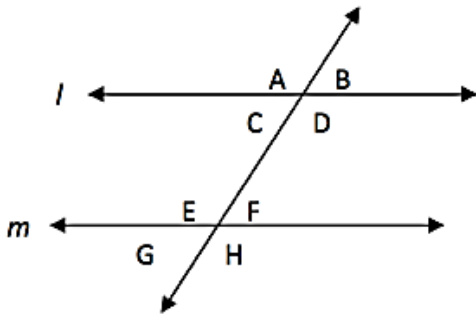
Name: _____

Date: _____

Directions: Name each of the following types of angles. Then, state whether they are congruent or supplementary.

<p>1)</p> 	<p>Name:</p> <p>Congruent or Supplementary</p>	<p>2)</p> 	<p>Name:</p> <p>Congruent or Supplementary</p>
<p>3)</p> 	<p>Name:</p> <p>Congruent or Supplementary</p>	<p>4)</p> 	<p>Name:</p> <p>Congruent or Supplementary</p>

Directions: Find the value of x in each question given that lines l and m are parallel. Check your answers by finding the measure of each angle.



5. $m\angle C = 3x - 10;$
 $m\angle F = x + 70$

6. $m\angle D = x + 27;$
 $m\angle F = 2x - 39$

7. $m\angle B = 2(x + 40);$
 $m\angle G = 5x + 44$

$x =$

$m\angle C =$

$m\angle F =$

$x =$

$m\angle D =$

$m\angle F =$

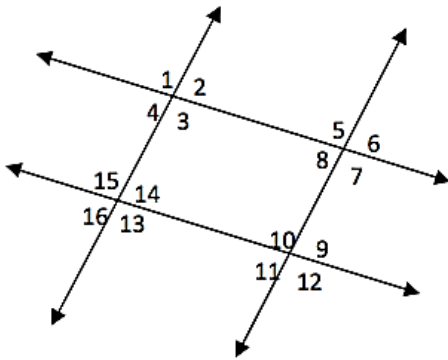
$x =$

$m\angle B =$

$m\angle G =$

Directions: Solve for the following. Show all work in the space provided.

8. Given that $m\angle 4 = 3x + 10$ and $m\angle 12 = 2x + 30$, find the value of x , $m\angle 4$, $m\angle 10$.



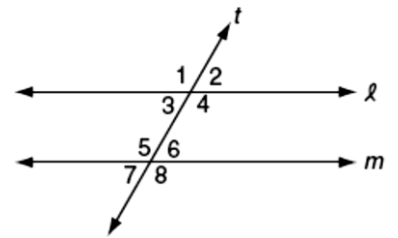
$x =$

$m\angle 4 =$

$m\angle 10 =$

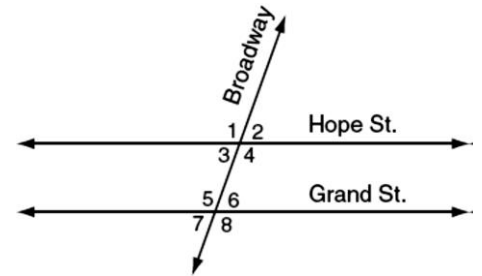
9. In the accompanying diagram, line ℓ is parallel to line m , and line t is a transversal. Which must be a true statement?

- (1) $m\angle 1 + m\angle 4 = 180$ (3) $m\angle 3 + m\angle 6 = 180$
 (2) $m\angle 1 + m\angle 8 = 180$ (4) $m\angle 2 + m\angle 5 = 180$



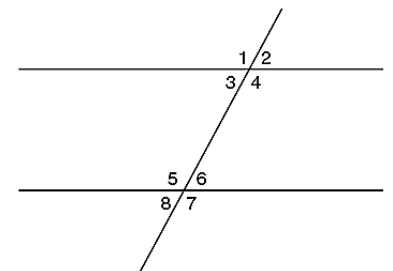
10. The accompanying diagram shows two parallel roads, Hope Street and Grand Street, crossed by a transversal road, Broadway. If $m\angle 1 = 110$, what is the measure of $m\angle 7$?

- (1) 40° (3) 110°
 (2) 70° (4) 180°

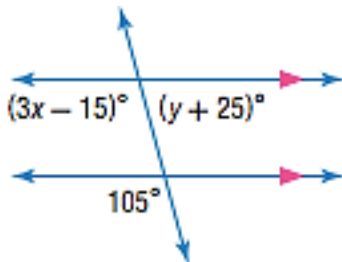


11. In the accompanying figure, what is one pair of alternate interior angles?

- (1) $\angle 1$ and $\angle 2$ (3) $\angle 4$ and $\angle 6$
 (2) $\angle 4$ and $\angle 5$ (4) $\angle 6$ and $\angle 8$



12. Find the value of x and y .



$x =$

$y =$