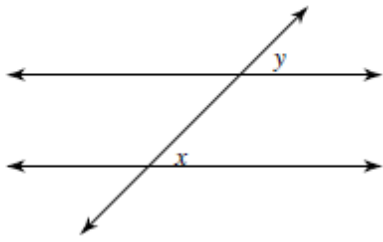
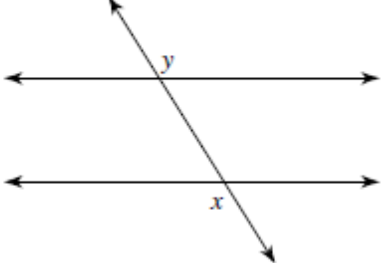
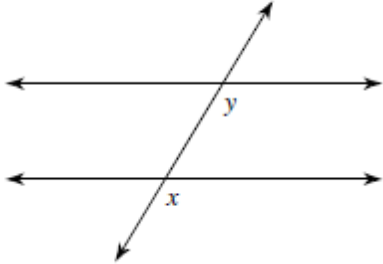
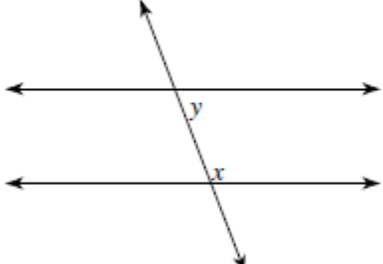


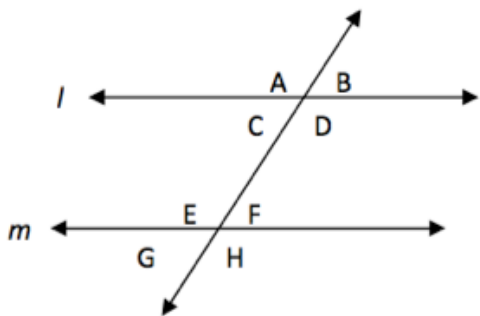
Parallel Lines and Transversals Practice

Name: _____

1) 	Name:	2) 	Name:
	Congruent or Supplementary		Congruent or Supplementary

3) 	Name:	4) 	Name:
	Congruent or Supplementary		Congruent or Supplementary

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

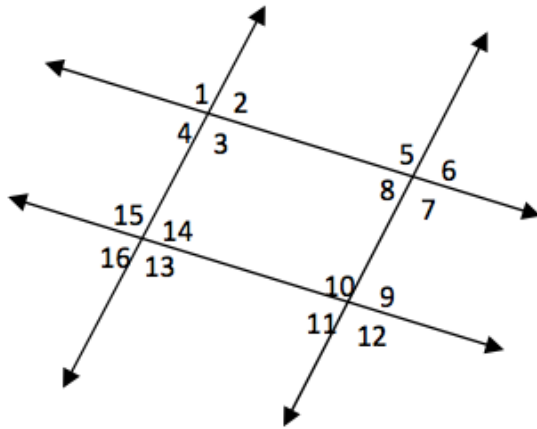
7. $m\angle B = 2(x + 40)$;
 $m\angle G = 5x + 44$

$x =$ $m\angle C =$ $m\angle F =$

$x =$ $m\angle D =$ $m\angle F =$

$x =$ $m\angle B =$ $m\angle G =$

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

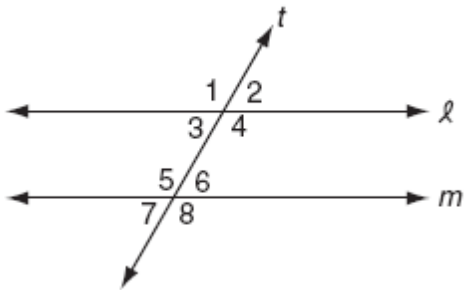


$x =$

$m\angle 4 =$

$m\angle 10 =$

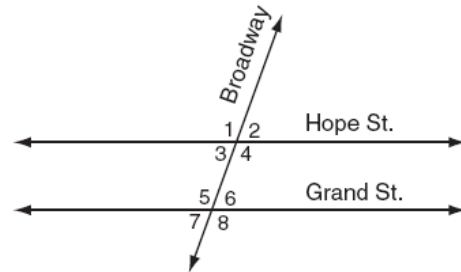
In the accompanying diagram, line ℓ is parallel to line m , and line t is a transversal.



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) $m\angle 2 + m\angle 5 = 180$

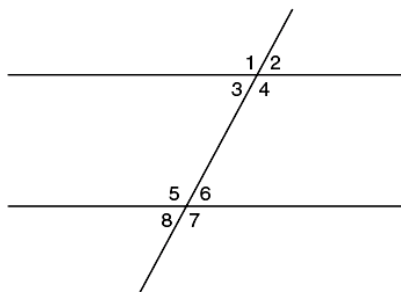
The accompanying diagram shows two parallel roads, Hope Street and Grand Street, crossed by a transversal road, Broadway.



If $m\angle 1 = 110$, what is the measure of $m\angle 7$?

- (1) 40° (3) 110°
 (2) 70° (4) 180°

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 $\angle 8$

Find the value of x and y .

