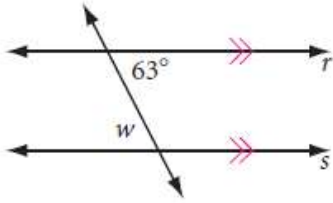Lesson 2.6 Assignment

Name:_____
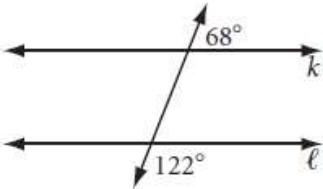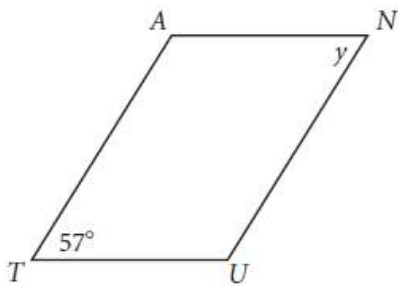
1) $w =$_____
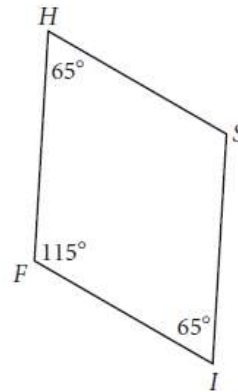

2) $x =$_____

3) Is line k parallel to line ℓ?
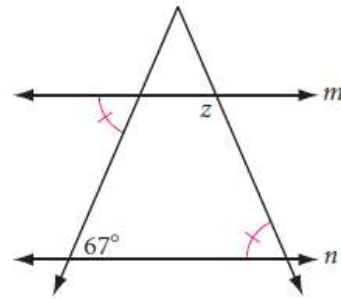

4) Quadrilateral $TUNA$ is a parallelogram.
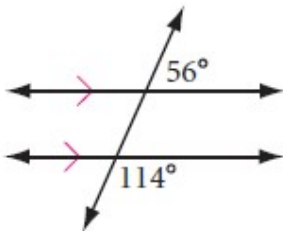
$y =$_____

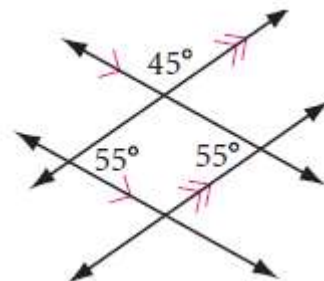5) Is quadrilateral FISH a parallelogram?
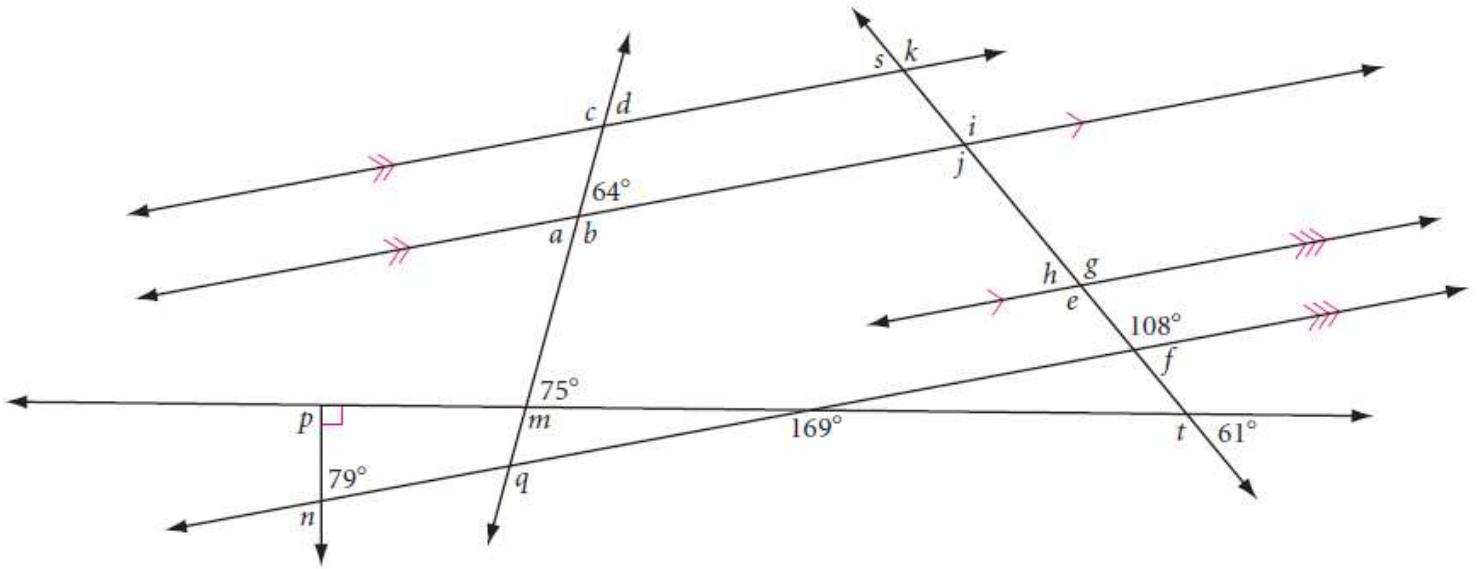

6) $m||n$

$z =$_____
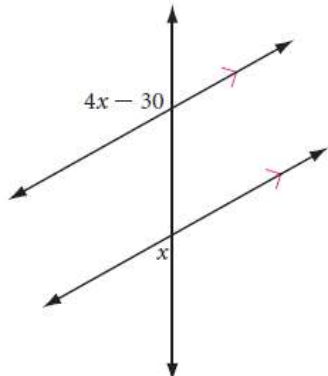

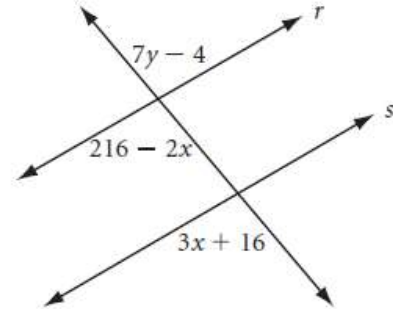7) What's wrong with this picture?

8) What's wrong with this picture?

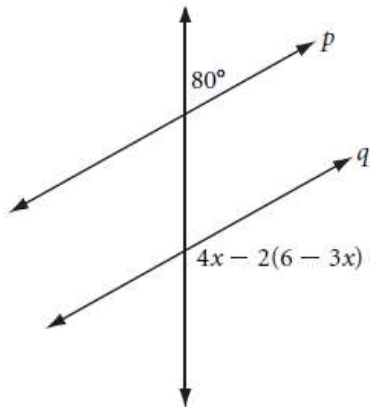9) Calculate each lettered angle measure. Explain how you determine measures n, p, and q.

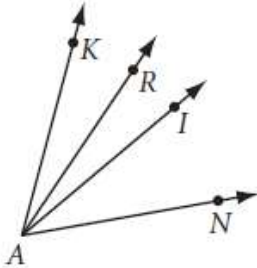10) Find the value of x.

11) If $r||s$, find the value of y.
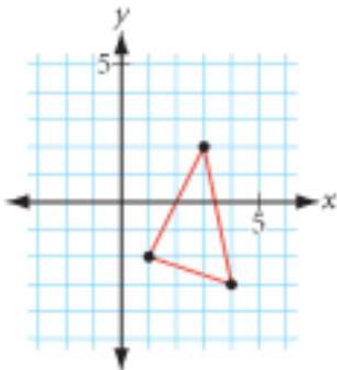

12) If $x = 12°$, is $p||q$?

13) If D is the midpoint of $\overline{AC}$ and C is the midpoint of $\overline{BD}$, what is the length of $\overline{AB}$ if $BD =$ 12 cm?

14) If $\overrightarrow{AI}$ is the angle bisector of $\angle KAN$ and $\overrightarrow{AR}$ is the angle bisector of $\angle KAI$, what is $m\angle RAN$ if $m\angle RAK = 13°$?
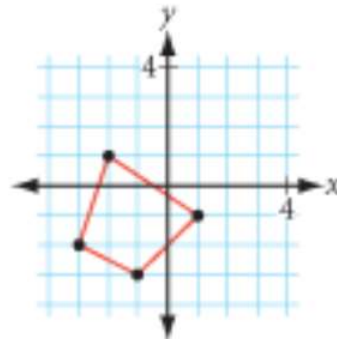

Draw each relocated polygon. Describe what happened to the figure. Is the new polygon congruent to the original?

15) Rule: Subtract 1 from each x-coordinate.

16) Rule: Reverse the sign of each x- and y-coordinate.

17) Rule: Switch the x- and y-coordinates.
Pentagon $LEMON$ with vertices:
$L(-4, 2)$
$E(-4, -3)$
$M(0, -5)$
$O(3, 1)$
$N(-1, 4)$