In the figure shown at right, PQ | RS. Use the figure for Exercises 1-7.



2. Name all exterior angles. 1, 5, 4, 8

3. Name the transversal.



5. Name two pairs of alternate exterior angles. 1 4 8 5 4 4

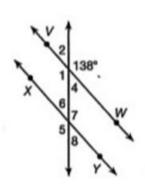
Name four pairs of corresponding angles.

7. If $m \angle 6 = 75^{\circ}$, find each angle measure.

$$m\angle 1 = \frac{75}{m}$$
 $m\angle 2 = \frac{105}{m}$ $m\angle 3 = \frac{75}{m}$ $m\angle 4 = \frac{105}{m}$ $m\angle 5 = \frac{105}{m}$ $m\angle 7 = \frac{105}{m}$ $m\angle 8 = \frac{75}{m}$

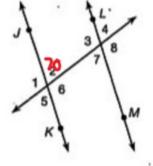
In the figure on the right, $\overrightarrow{VW} \parallel \overrightarrow{XY}$. Use the figure to find the measure of each angle.

8.
$$m \angle 1 = 138$$



Use figure at right to answer Exercises 9-16.

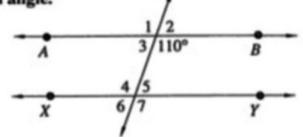
 $\overrightarrow{JK} \parallel \overrightarrow{LM}$. If $m \angle 2 = 70^{\circ}$, find each angle measure.



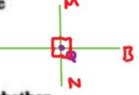
Match each pair of angles with the angle classification.

In the figure at the right, $\overrightarrow{AB} \parallel \overrightarrow{XY}$. Find the measure of each angle.





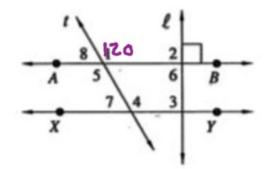
7. Lines \overrightarrow{MN} and \overrightarrow{AB} intersect at Q. Also, $\overrightarrow{MN} \perp \overrightarrow{AB}$. Find the measures of $\angle MQA$, $\angle NQA$, $\angle MQB$, and $\angle NQB$.



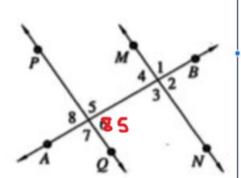
In the figure at the right, $\overrightarrow{AB} \parallel \overrightarrow{XY}$, and $m \angle 1 = 120^{\circ}$. Tell whether each statement is true or false.

11.
$$m \angle 4 = 120^{\circ}$$

15.
$$m\angle 7 = 60^{\circ}$$
 T



In the figure at the right, $\overrightarrow{MN} \parallel \overrightarrow{PQ}$ and the measure of $\angle 6$ is 85°. Find the measure of each angle.



24. In the figure at the right, $m \angle 1 = 89^{\circ}$ and $m \angle 2 = 91^{\circ}$. Is \overrightarrow{PQ} perpendicular to \overrightarrow{AB} ?

No, Perpondicular angles are exactly 90°

