## Postulate:

If 2 lines are cut by a transversal so that corresponding angles are congruent, then the lines are parallel.

If corr. $\angle$ 's are $\cong$, then lines are //.

## Postulate:

If given a line and a point not on the line, then there exists exactly one line through the point that is parallel to the given line.

## Theorem:

If 2 lines in a plane are cut by a transversal so that a pair of alternate exterior angles are congruent, then the two lines are parallel.

If alt. ext. $\angle$ 's are $\cong$, then lines are //.

## Theorem:

If 2 lines in a plane are cut by a transversal so that a pair of alternate interior angles are congruent, then the two lines are parallel.

If alt. int. $\angle$ 's are $\cong$, then lines are $/ /$.

## Theorem:

If 2 lines in a plane are cut by a transversal so that a pair of consecutive interior angles are supplementary, then the two lines are parallel.

If cons. int. $\angle$ 's are supp., then lines are //.

Theorem:
In a plane, if two lines are $\perp$ to the same line, then they are parallel.

If 2 lines are $\perp$ to the same line, then lines //.

1. Determine which lines, if any, are parallel.

2. Find $x$ and $m \angle Z Y N$ so that $\overline{\mathrm{PQ}} / / \overline{\mathrm{MN}}$.

