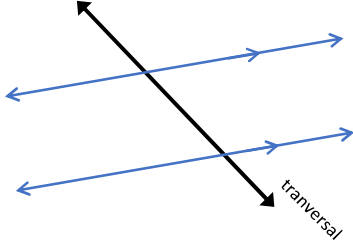


Core Concept

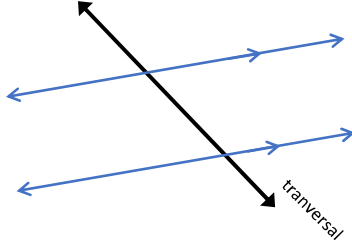
Angles Formed by Transversals

Corresponding Angles Postulate



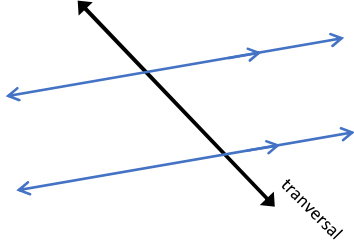
If two parallel lines are cut by a transversal, then the pairs of corresponding angles are

Alternate Interior Angles Theorem



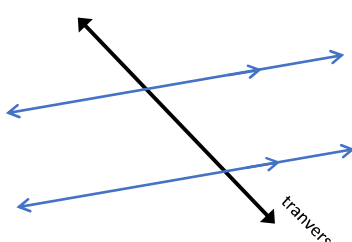
If two parallel lines are cut by a transversal, then the pairs of alternate interior angles are

Same-Side Interior Angles Theorem



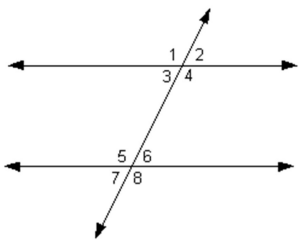
If two parallel lines are cut by a transversal, then the pairs of same-side interior angles are

Alternate Exterior Angles Theorem



If two parallel lines are cut by a transversal, then the pairs of alternate exterior angles are

Use the diagram to for the following problems.



Use a protractor to find each measure.

$m\angle 1 =$ $m\angle 5 =$

$m\angle 2 =$ $m\angle 6 =$

$m\angle 3 =$ $m\angle 7 =$

$m\angle 4 =$ $m\angle 8 =$

Corresponding Angles:

$\angle 1$ and _____

$\angle 2$ and _____

$\angle 3$ and _____

$\angle 4$ and _____

Same-Side Interior Angles:

$\angle 3$ and _____

$\angle 4$ and _____

Alternate-Interior Angles:

$\angle 3$ and _____

$\angle 4$ and _____

Alternate-Exterior Angles:

$\angle 1$ and _____

$\angle 2$ and _____

Corresponding \angle 's are _____.

Alt int \angle 's are _____.

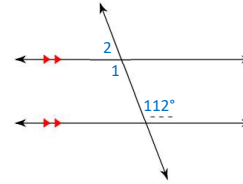
Same-Side Interior \angle 's are _____.

Alt ext \angle 's are _____.

Examples 1-3: Determine the measure of the missing angle and identify the type of pair marked.

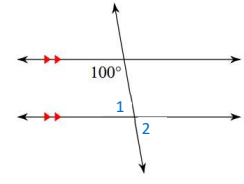
1) $m\angle 1 =$ _____ because _____

$m\angle 2 =$ _____ because _____



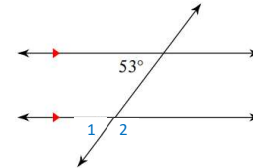
2) $m\angle 1 =$ _____ because _____

$m\angle 2 =$ _____ because _____

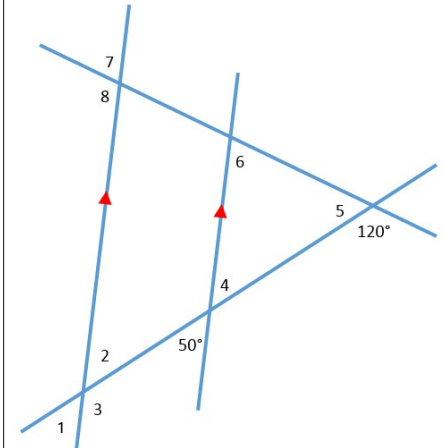


3) $m\angle 1 =$ _____ because _____

$m\angle 2 =$ _____ because _____



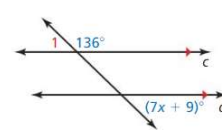
4) Find the measure of each angle.



$m\angle 1 =$ $m\angle 2 =$ $m\angle 3 =$ $m\angle 4 =$

$m\angle 5 =$ $m\angle 6 =$ $m\angle 7 =$ $m\angle 8 =$

5) Use the property of parallel lines to write and solve an equation to find x .



$m\angle 1 =$ _____ because _____

Equation: _____ because _____

$x =$