

Geometry

3.2 Parallel Lines and Transversals

Postulate and Theorems

Corresponding Angles Postulate

If 2 || lines are cut by _____, then the corresponding \angle s are \cong

Alternate Interior Angles Theorem

If 2 || lines are cut by _____, then the _____ \angle s are \cong

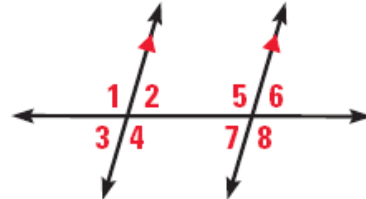
Alternate Exterior Angles Theorem

If 2 || lines are cut by _____, then the _____ \angle s are \cong

Consecutive Interior Angles Theorem

If 2 || lines are cut by _____, then the consecutive interior \angle s are _____

If $m\angle 1 = 105^\circ$, find $m\angle 4$, $m\angle 5$, and $m\angle 8$. Tell which postulate or theorem you use in each case.



If $m\angle 3 = 68^\circ$ and $m\angle 8 = (2x + 4)^\circ$, what is the value of x ?

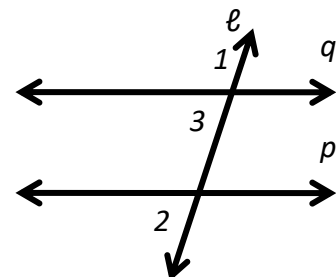
Prove that if 2 || lines are cut by a transversal, then the exterior angles on the same side of the transversal are supplementary.

Given: $p \parallel q$

Prove: $\angle 1$ and $\angle 2$ are supplementary.

Statements

Reasons



Geometry 3.2

Name: _____

Assignment: 131 #2, 4, 5, 6, 8, 10, 12, 14, 15, 18, 20, 22, 23, 24, 26, 29, 30, 32, 33, 38 = 20 total