Geometry

3.2 Parallel Lines and Transversals

Postulate and Theorems

Corresponding Angles Postulate

If 2 || lines are cut by _____, then the corresponding ∠s are ≅

Alternate Interior Angles Theorem

If 2 || lines are cut by _____, then the _____∠s are ≅

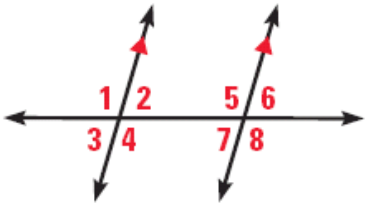
Alternate Exterior Angles Theorem

If 2 || lines are cut by _____, then the _____∠s are ≅

Consecutive Interior Angles Theorem

If 2 || lines are cut by _____, then the consecutive Interior ∠s are _____

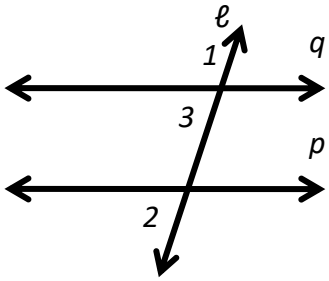
If m∠1 = 105°, find m∠4, m∠5, and m∠8. Tell which postulate or theorem you use in each case.



If m∠3 = 68° and m∠8 = (2*x* + 4)°, 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* || *q*
Prove: ∠1 and ∠2 are supplementary.

Statements	Reasons



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