Corresponding Angles Converse: If two lines are cut by a transversal, so the corresponding angles are congruent, then the lines are parallel.


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Consective Interior Angles Converse: If two lines are cut by a transversal, so the consecutive interior angles are supplementary, then the two lines are parallel.


Alternate Interior Angles Converse: If two lines are cut by a transversal, so the alternate interior angles are congruent, then the two lines are parallel.

Alternate Exterior Angles Converse: If two lines are cut by a transversal, so the alternate exterior angles are congruent, then the two lines are parallel.

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Transitive Property of Parallel Lines: If two lines are parallel to the same line, then they are parallel to each other.


Example 1: Find the value of $x$ so that $l \| m$.


$-5 x$


Example 2: Find the value of $x$ and the $m \angle S N U$ so that $n \| m$. $8(15)+4=124$

$8 x+4=9 x-11$
$15=x$

Example 3: Find the value of $x$ so that $l \| m$.


Example 4: Find the value of $x$ that would make $\ell \| m$.


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