(3.3) Proofs with Parallel Lines7.notebook

Objectives: You will be able to recognize angle conditions that occur with parallel lines and prove theorems about parallel lines

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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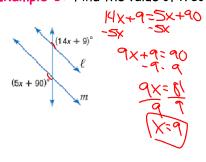
are supplementary, then the two lines are parallel.

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



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

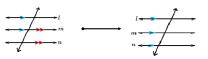


Alternate Interior Angles Converse: If two lines are cut by a transversal, so the alternate interior angles are congruent, then the two lines are parallel.

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.

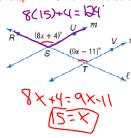
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Transitive Property of Parallel Lines: If two lines are parallel to the same line, then they are parallel to each other.



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Example 2: Find the value of x and the $m \angle RSTI$ so that $n \mid \mid m$.

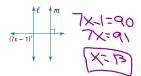


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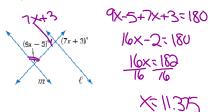
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Example 3: Find the value of x so that $\ell \mid \mid m$.

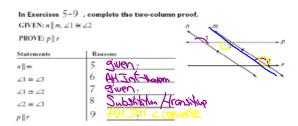


Example 4: Find the value of x that would make $\ell \mid \mid m$.



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