Chapter 3.5 **Showing Lines are Parallel**

<u>Converse</u>: is switching the hypothesis and conclusion in an if-then statement.

Ex1a) If 2 segments are \cong , then the 2 segments are the same length.

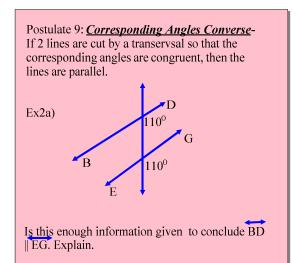
Converse: 172 segments are the same length

true/false:

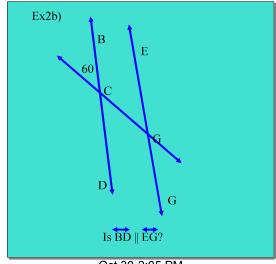
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Write the converse and determine if it is true/false.
Try 1. If 2 angles have the same measure, then the 2 angles are congruent.
Try 2. If < 3 and < 4 are complementary, then m<3 + m<4 = 90°.
Try 3. If <1 and < 2 are right angles, then <1 \cong <2.

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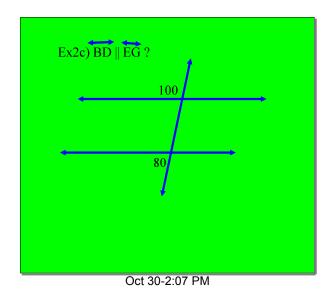


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Try: p.137 4 -6



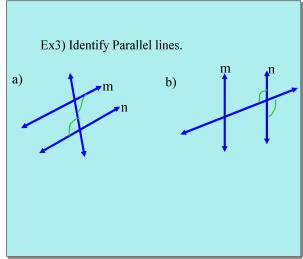
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3.8 Theorems 3.8 and 3.9

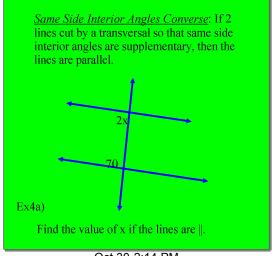
Alternate Interior Angles Converse: If 2 lines are cut by a transversal so that alternate interior angles are congruent, then the lines are parallel.

Alternate Exterior Angles Converse:
If 2 lines are cut by a transversal so that alternate exterior angles are congruent, then the lines are parallel.

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