11.2 Notes "Reasoning & Parallel Lines"

AND

11.3 Notes "Interior Angles of Triangles"

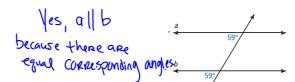
Intro

The symbo means "is parallel to." If line m is parallel to line n, you write $m \parallel n$.



Example

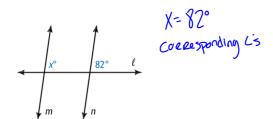
Can you conclude that $a \parallel b$? Justify your reasoning.



2. Complete Example #1.

Got It?

For which value of x is line m parallel to line n?



3. Discuss the Example 2 INTRO.

Intro

The reasoning that you use to decide whether two lines are parallel based on knowing whether corresponding angles or alternate interior angles are congruent is called deductive reasoning. **Deductive** reasoning is a process of reasoning logically from given facts to a conclusion.

4. Complete Example #2.

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Got It?

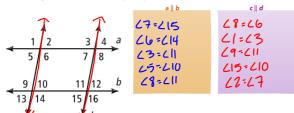
For which value of x is line m parallel t line n?



5. Help your teacher complete the Example 3 Activity.....

Example

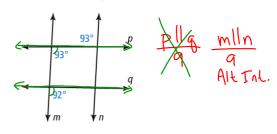
Which congruence statements justify $a \parallel b$ or $c \parallel d$?



6. Complete Example #3

Got It?

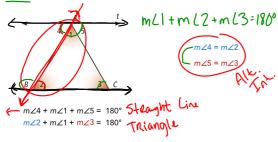
Which lines, if any, are parallel?



11.3 Notes "Interior Angles of Triangles"

1. Study the Intro below...

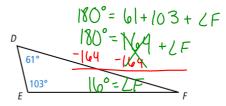
The sum of the measures of the interior angles of a triangle is 180°.



2. Complete Example #1

Got It?

What is $m \angle F$?=(6°



3. Complete Example #2.

Got It?

mall

The measure of one of the acute angles in a right triangle is 42.4°. What is the measure of the other acute angle?

