

# Cornell Notes

Name Rachel Munton

Date 9-7-2011

Topic Geometry

Class/Subject Asberry

8:54

Standard 3.0

Students construct & judge the validity of logical arguments & give counterexamples.

DO NOW

Complete "Check Skills You Need" p 87

Biconditional

When a conditional & its converse are true, you can combine them as a true biconditional. Uses "if and only if."

9:10

correct hw

Consider this true conditional statement. Write its converse & if true combine as a biconditional

9:20

example 1

Conditional: if  $x=5$ , then  $x+15=20$

Converse: if  $x+15=20$ , then  $x=5$   
(Both true)

Biconditional:  $x=5$  if & only if  $x+15=20$

Example 2

Write the two statements that form A.

Biconditional: Lines are skew if & only if they are noncoplanar

HOMEWORK: Assignment #9 pg 90-93  
(1, 2, 14, 18, 20, 22, 54-66 even)

QUIZ  
TOMORROW  
BRING BOOK

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Example 2  
cont...

Conditional: If lines are skew then they are noncoplanar

Converse: If two lines are noncoplanar then they are skew

Example 3

Definition: A triangle is a polygon with exactly 3 sides.

Show its reversible & write as true biconditional

~~Conditional: if~~

Converse: If a polygon has exactly 3 sides, then it is a triangle

Biconditional: A polygon is a triangle if & only if it has 3 sides

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Example 4

Good definition? Explain

An apple is a fruit that contains seeds.

- Many others contain seeds.
- Statement true of apples but NOT reversible

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Geometry

9/7/2011  
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Example

Good Definition?

A square is a figure with 4 right angles.

NO: rectangle has 4 right angles

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