SLO: I can write the converse, inverse, and contrapositive of a statement and state the truth value of each.

☺☺☺☺Today is a GREAT day to think mathematically! Let's get organized first. ☺☺☺☺

TABLE OF CONTENTS: **11/7 Converse, Inverse, Contrapositive**

NEW NOTEBOOK PAGE: **11/7 Converse, Inverse, Contrapositive – Name**
SLO: I can write the converse, inverse, and contrapositive of a statement and state the truth value of each.

Assignment Sheet: **11/7 CW: Converse, Inverse, Contrapositive Due 11/7**
11/7 HW: Converse, Inverse, Contrapositive Due 11/8

DO NOW SHEET: **Name, Date, Period,**
Write 3 counterexamples for the statement "If y = 2x – 3, then y = 7."

LESSON: (Record all work in your notebook.)

Notes (Copy into your notebook and draw a box around them)

Vocabulary:

Statement	Example	Truth Value
Conditional	If a figure is a square, then it has four right angles.	True
Converse: Switch H and C.	If a figure has four right angles, then it is a square.	False
Inverse: Negate H and C.	If a figure is not a square, then it does not have four right angles.	False
Contrapositive: Switch and negate H and C.	If a figure does not have four right angles, then it is not a square.	True

SLO: I can write the converse, inverse, and contrapositive of a statement and state the truth value of each.

(1) Copy each statement and write the converse, inverse, and contrapositive. State the truth value of each sentence you write.

(a) If I pay, then I play.
(b) If it rains, then practice is cancelled.
(c) If lines are parallel, then lines don't intersect.

(d) If I eat lunch, then I am not hungry.
(e) If I have permission, then I visit my friend.
(f) I am happy when the sun shines. (BE CAREFUL – change this to an if…then statement first)

HOMEWORK: Problems under "Wednesday 11/7" on the homework sheet.

EXIT

BACK OF DO NOW SHEET: **Today my level of understanding is ☺😐☹ because _____**
Create a conditional statement (if...then) and write its converse, inverse, and contrapositive.