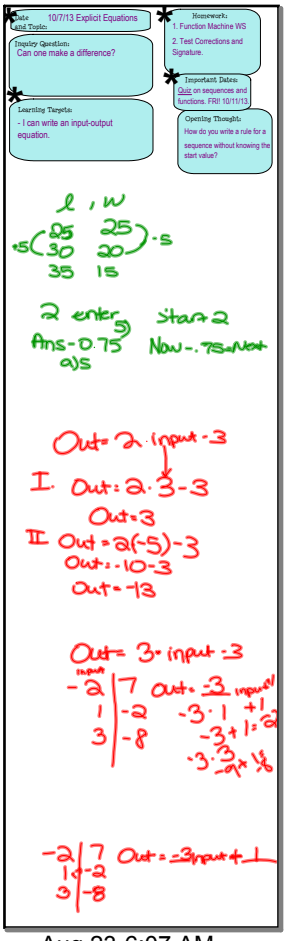


Aug 23-6:07 AM

Part I: Function Machine Model

$y = 3x$

$y = 3 \cdot -2$
$y = -6$

$y = 3 \cdot 0$
$y = 0$

$y = 3 \cdot 2$
$y = 6$

In (x)	(y) Out
-2	-6
0	0
2	6

Oct 14-3:20 PM

II. Determine the function.

A. Open the following website to access the function machine. http://nlvm.usu.edu/en/NAV/frames_asid_191_g_3_t_1.html

B. Drag as many of the blue numbers as you need to figure out the pattern of each machine.

C. Complete the table on computer. *Note: If you type in a number and hit enter, then it will turn blue if correct. If it isn't correct, then the site will tell you to try again.*

http://nlvm.usu.edu/en/NAV/frames_asid_191_g_3_t_1.html

Oct 14-3:59 PM

COMPARING RULES: EXAMPLE 1

Term	Value
1	5
2	8
3	11
4	14
5	17

+3 +3 +3 +3

NOW - NEXT RULE:

Now + 3 = next

INPUT - OUTPUT RULE:

Output = 3 · input + 2

11 = 3 · 3 + 2

11 = 9 + 2

11 = 11

Sep 30-5:24 AM

COMPARING RULES

Term	Value
1	52
2	46
3	40
4	34
5	28

-6 -6 -6 -6

NOW - NEXT RULE:

Now - 6 = Next

INPUT - OUTPUT RULE:

-6 · input + 58

-6 · 1 + 58 = 52

Sep 30-5:24 AM

RECURSIVE FORM:

EXPLICT FORM:

WHAT INFORMATION CAN YOU GET FROM EACH FORM?

WHEN IS IT MORE ADVANTAGEOUS TO USE ONE FORM VERSUS THE OTHER?

Sep 30-5:30 AM

http://www.mathplayground.com/functionmachine.html

Classwork:

Input/ Output Game

Homework:

Input/ Output Machine HW

Oct 14-4:08 PM

6.

input	
3	11
-1	-1
$\frac{2}{3}$	4

$f(x) = 3 \cdot \text{input} + 2$

$3 \cdot 3 + 2 = 11$

$3 \cdot -1 + 2 = -1$

$3 \cdot \left(\frac{2}{3}\right) + 2$

$2 + 2$

7.

2	3
0	-5
5	15

$f(x) = 4 \cdot \text{input} - 5$

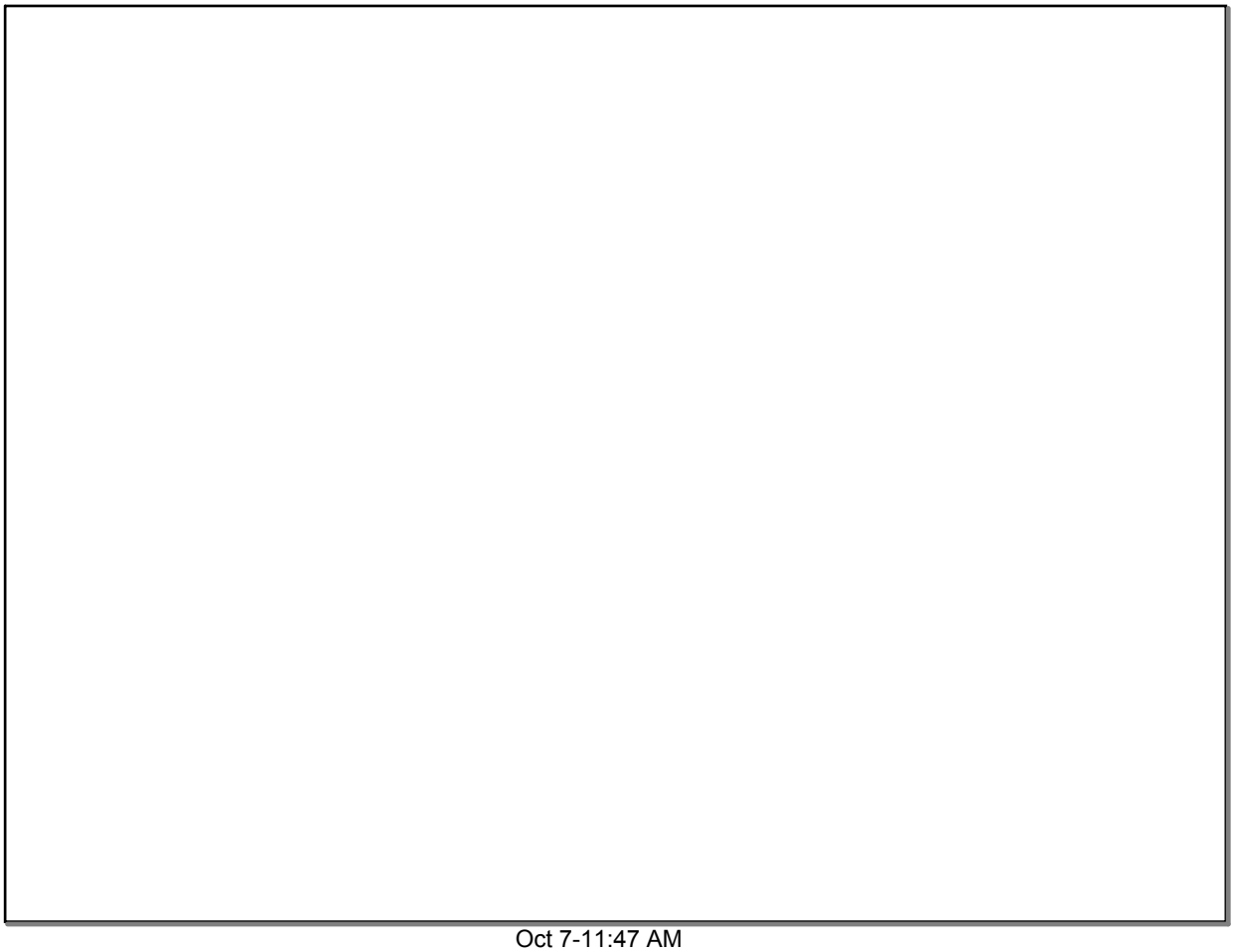
$4 \cdot (2) - 5 = 3$

$8 - 5 \checkmark 3$

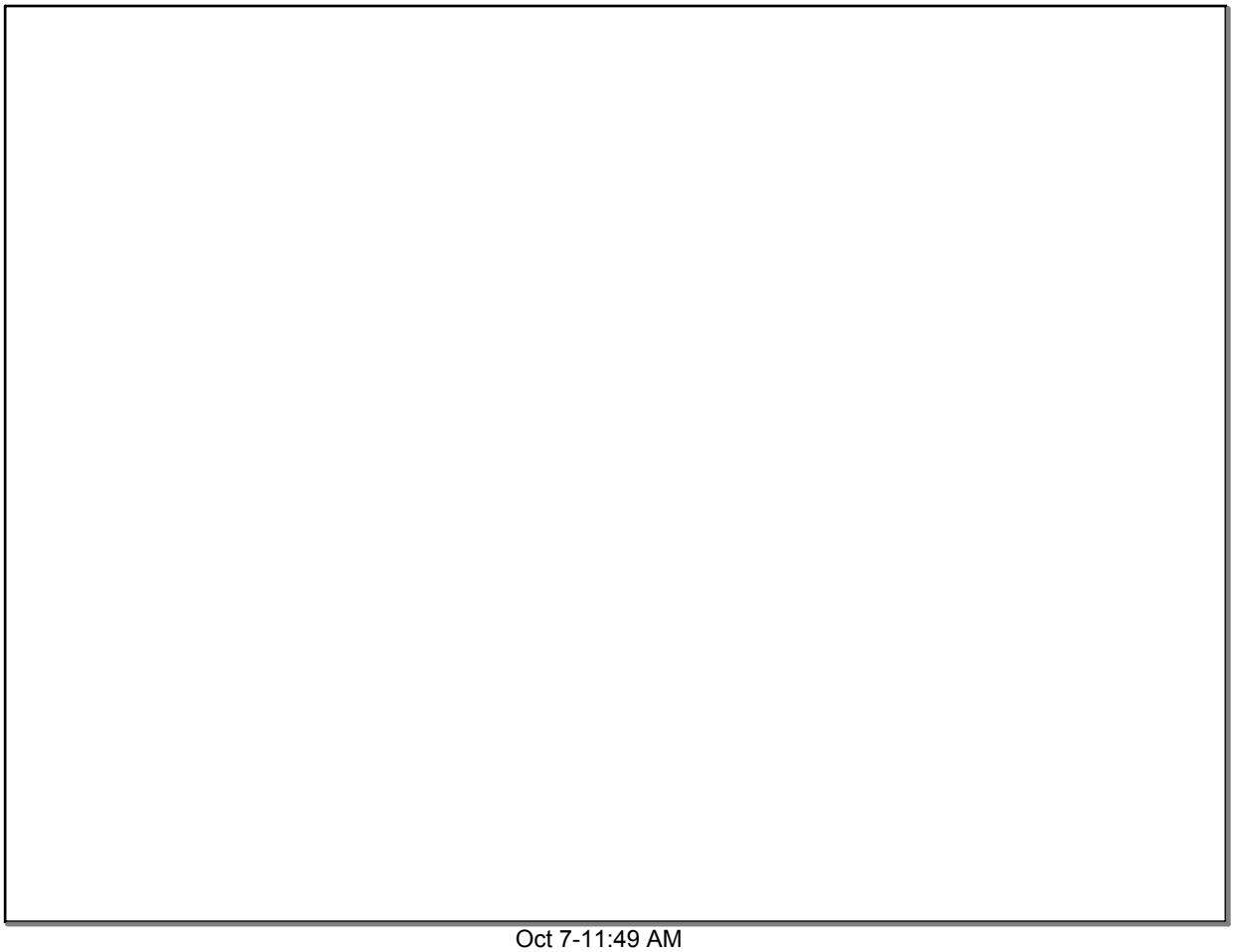
Retake Wed 16

Back by Tues 15th

Oct 7-11:41 AM



Oct 7-11:47 AM



Oct 7-11:49 AM