Name _____ Date _____

UNIT 7 **LESSON 4-Day 2**

DO NOW

1. Simplify $(x - 8)(x + 2)$	2. Simplify $(x - 3)(x - 3)$

Aim: "How do we factoring using the easy tri method?"

#	Trinomial with a leading coefficient of <u>one</u>	Factors of the last term	Check
3.	$x^2 - 6x + 9$		
4.	$x^2 - 6x - 16$		
5.	$x^2 - 6x - 775$		

Steps to find all the factors of a number on the calculator:

1. **y = #/x(last term)**
2. Press 2nd graph to look at the table of factors

<u>Steps for Easy Trinomial Factoring</u>

1) "Double bubble", with an x in each ( ).
2) The first sign drops down in the 1st ( ).
3) Multiply the given signs to determine the 2nd sign.
4) Find factors of the last # that add or subtract to the middle #.
5) The bigger # goes first!
6) Check by Double Distributing.

#	Trinomial with a leading coefficient of <u>one</u>	Factors of the last term
6.	$x^2 - x - 12$	
7.	$x^2 + 6x - 7$	
8.	$x^2 + 5x - 24$	
9.	$a^2 - a - 72$	
10.	$y^2 + y - 42$	
11.	$x^2 - 3x - 4$	
12.	$x^2 - 2x - 15$	
13.	$x^2 - 4x - 12$	

14.	$x^2 + 4x - 60$	
15.	$y^2 + 3y - 10$	
16.	$x^2 - x - 20$	
17.	$a^2 - 2a - 15$	
18.	$y^2 + 2y - 24$	
19.	$x^2 - 7x - 8$	
20.	$x^2 - 3x - 28$	