### Lesson 4 – Factoring Trinomials ax2+bx+c

Recall Algebra Tiles



Determine the product using algebra tiles:

(a) -3x(x – 1) (b) (x + 3)(2x + 1)

Now given the product determine the dimensions:

 (a) (b)



THIS IS CALLED \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

Example 1: Factor the following, if possible: a = 1

1. x2+x-12 (b) 5x2-35x+60

c) x2+ 4x+6 (d) x4+11x2+24 e) (x+b)2+6(x+b)+8

*Do pg. 29 notes worksheet 3.8 – see key on website.*

STOP!!! For Tuesday notes Example 2: Factor the following, if possible: a> 1

a) 3x2-10x+8 (b) 10x2-22x+4

c) 3y2-11y +6 (d) 3x2+ 2x +4

e) 2x2+5xy+2y2 (f) 8a2+18a-5

Example 3:

A rescue worker launches a signal flare into the air from the side of a mountain. The height of the flare can be represented by the formula h=-16t2+144t+160. In the formula, h is the height, in feet, above the ground, and t is the time, in seconds.

a) What is the factored from of the formula?

b) What is the height of the flare after 5.6s?

Assignment: 3.8, 3.9 Worksheet. Quiz on Lessons 1-4 on MARCH 2