

## I. Special Forms –

A. Difference of 2 Squares (p.353):

$$\mathbf{a^2 - b^2 = (a + b)(a - b)}$$

B. Perfect Squares (p.356):

$$a^2 \pm 2ab + b^2 = (a \pm b)^2$$

C. Sum/Difference of 2 Cubes (p.358):

$$\mathbf{a^3 \pm b^3 = (a \pm b)(a^2 \mp ab + b^2)}$$

II. Examples (pp.359-360): Exercises#2-94(even), 110

HW: pp.359-360 / Exercises #1-11(odd), 15, 23-  
91(every other odd), 105, 107, 111

## I. Factoring Review –

A. Common factor

B. 2 terms:  $a^2 + b^2$  is *prime* (non-factorable)

$$a^2 - b^2 = (a + b)(a - b)$$

$$\mathbf{a^3 \pm b^3 = (a \pm b)(a^2 \mp ab + b^2)}$$

C. 3 terms:  $\mathbf{ax^2 + bx + c}$

find factors of “a” & “c” (reverse FOIL)

D. 4 (or more) terms: group factoring

## II. Examples (pp.366-367): Exercises #2-86 (even)

HW: pp.366-367 / Exercises #1,3,5,13-85 (every other odd)