

MTH 28 LECTURE NOTES (Ojakian)

Topic 7: Factoring Trinomials

OUTLINE

References: 6.1, 6.2

1. Factoring Trinomials

PROBLEM 1. *Factor the following:*

(a) $x^2 + 5x + 6$

(b) $x^2 - 5x + 6$

(c) $x^2 + 7x + 6$

2. Factoring Harder Trinomials

When $A \neq 1$: **Guess-and-Check** OR **AC Method**

AC Method:

- Find the product AC.
- Find two numbers whose product is AC and sum is B
- Break up middle term using the two numbers
- Use Grouping Method

(a) Problems (Section 6.2): 95/96, 99/101

(b)

PROBLEM 2. *Factor the following:*

i. $x^2 - 4x - 21$

ii. $2x^2 + 5x - 3$

iii. $6y^2 + 23y + 20$