Topic 20: Factoring Trinomials

OUTLINE
References: 6.1, 6.2

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1. <u>Factoring Trinomials</u>

   PROBLEM 1. *Factor the following:*

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

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

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

2. <u>Factoring Harder Trinomials</u>

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

   <u>AC Method</u>:

   - 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.* $6y^2 + 23y + 20$