Nan	ame: Course/Section:	Instructor:
Chapter 13 Factoring Polynomials and Solving Equations 13.2 Factoring Trinomials I (x^2+bx+c)		
Revi	eview of the FOIL Method ~ Factoring Trinomials with Leading	Coefficient 1
ST	STUDY PLAN	
ŀ	Read: Read Section 13.2 on pages 806-811 in your textbook	or eText.
Practice: Do your assigned exercises in your Book MyMathLab Worksheets Review: Keep your corrected assignments in an organized notebook and use them to review for the test.		
Exer	Ley Terms Exercises 1-2: Use the vocabulary terms listed below to complete State that some terms or expressions may not be used. Standard form	each statement.
	prime polynomial leading coefficient	
1.	1. Any trinomial of degree 2 in the variable x can be written in	n
	as $ax^2 + bx + c$, where a , b , and c are constants. The constants.	
2.	2. A polynomial with integer coefficients that cannot be factor is called a(n)	ed by using integer coefficients

Factoring Trinomials with Leading Coefficient 1

Exercises 1-16: Refer to Examples 1-7 on pages 807-811 in your text and the Section 13.2 lecture video.

For each of the following, find an integer pair that has the given product and sum.

2. Product:
$$-40$$
; Sum: -3

Factor each trinomial.

3.
$$x^2 + 7x + 10$$

4.
$$x^2 + 9x + 18$$

5.
$$y^2 + 13y + 42$$

6.
$$b^2 - 10b + 21$$

7.
$$x^2 - 8x + 12$$

8.
$$y^2 - y - 20$$

9.
$$t^2 - 3t - 40$$

10.
$$x^2 + 2x - 24$$

11.
$$x^2 - 7x + 12$$

Factor each trinomial, if possible.

12.
$$x^2 - 9x + 22$$

13.
$$x^2 - 5x - 14$$

Factor each trinomial completely.

14.
$$5x^2 + 30x + 40$$

15.
$$2x^4 + 10x^3 - 12x^2$$

16. Find one possibility for the dimensions of a rectangle that has an area of
$$x^2 + 3x - 10$$
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