

# CHAPTER 9: POLYNOMIALS & FACTORING

Factoring Trinomials

## OBJECTIVES

- I can factor trinomials

## PART 1: FACTORING TRINOMIALS

Find two numbers that add to 7 and multiply to 12.

Find two numbers that add to 1 and multiply to -90.

Find two number that add to -15 and multiply to 50.

## PART 1: FACTORING TRINOMIALS

• MULTIPLYING:

$$(x - 10)(x + 2)$$

• FACTORING:

$$x^2 - 8x - 20$$

## PART 1: FACTORING TRINOMIALS

1 Factor each expression. Check your answer.

a.  $g^2 + 7g + 10$

b.  $v^2 + 21v + 20$

c.  $a^2 + 13a + 30$

## PART 1: FACTORING TRINOMIALS

• MULTIPLYING:

$$(2x + 1)(3x + 4)$$

• FACTORING:

$$6x^2 + 11x + 4$$

## PART 1: FACTORING TRINOMIALS

1 Factor each expression.

a.  $2y^2 + 5y + 2$

b.  $6n^2 - 23n + 7$

c.  $2y^2 - 5y + 2$

## CAN YOU?? PROVE IT!!

□ I can factor trinomials

13.  $2t^2 - t - 3$

14.  $8y^2 - 10y - 3$