

## Factoring Trinomials (a is not 1)

Date \_\_\_\_\_ Period \_\_\_\_\_

**CLASS EXAMPLES: Factor each completely.**

1)  $3x^2 + 14x + 15$

2)  $3x^2 + 14x + 15$

3)  $4n^2 - 15n - 4$

4)  $4x^2 + 9x + 5$

**Factor each completely.**

5)  $7x^2 - 43x + 6$

6)  $5x^2 - 13x - 6$

7)  $3v^2 + 2v - 1$

8)  $4n^2 + 23n + 15$

9)  $4x^2 - 21x - 18$

10)  $4n^2 + 17n + 15$

11)  $7x^2 - 12x + 5$

12)  $3r^2 + 5r - 28$

13)  $6a^2 + 25a + 21$

14)  $4x^2 - 11x + 6$

**Factor each completely. (Don't forget to check for GCF's!)**

15)  $8v^2 - 16v - 10$

16)  $8n^2 + 30n - 50$

17)  $12b^2 - 24b + 9$

18)  $8x^2 + 22x - 40$

19)  $12x^2 + 15x + 3$

20)  $8p^2 - 30p - 50$

## Answers to Factoring Trinomials (a is not 1)

1)  $(3x + 5)(x + 3)$

3)  $(n - 4)(4n + 1)$

5)  $(7x - 1)(x - 6)$

7)  $(3v - 1)(v + 1)$

9)  $(x - 6)(4x + 3)$

11)  $(7x - 5)(x - 1)$

13)  $(a + 3)(6a + 7)$

15)  $2(2v + 1)(2v - 5)$

17)  $3(2b - 3)(2b - 1)$

19)  $3(x + 1)(4x + 1)$