

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)

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

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

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

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

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

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

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

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

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

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