Name: _____

11.3 Factoring x^2+bx+c and x^2-bx+c

Objective: ***I CAN . . .*** *factor quadratic trinomials of the form* x^2+bx+c *and* x^2-bx+c

Warm-Up: ***a.*** (x + 7)(x + 3) ***b.*** (x – 6)(x – 3)

Factoring Quadratics: Writing a quadratic expression as the product of two linear expressions

Factoring Double Bubble	

C is Positive = Same Signs **B Determines Both Signs**	x^2+bx+c $(x+\_\_)(x+\_\_)$	x^2-bx+c $(x-\_\_)(x-\_\_)$

Factor the following quadratic expressions.

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

2. $x^2+8x+15$

3. $x^2+11x+10$

4. $x^2+11x+18$

5. $x^2+15x+56$

6. $x^2+12x+36$

7. $x^2 - 9x + 20$

8. $x^2 - 11x + 24$

9. $x^2 - 17x + 60$

10. $x^2 - 15x + 56$

11. $x^2 - 5x + 6$

12. $x^2 - 14x + 49$

11.4 Factoring $x^2 + bx - c$ and $x^2 - bx - c$ Name: _____

Objective: ***I CAN . . .*** *factor quadratic trinomials of the form* $x^2 + bx - c$ and $x^2 - bx - c$

Factoring Quadratics: Writing a quadratic expression as the product of two linear expressions

Factoring Double Bubble	

C is Negative = Different Signs **B Determines the Larger Factor's Sign**	$x^2 - bx - c$ $(x - \_\_)(x + \_\_)$	$x^2 + bx - c$ $(x + \_\_)(x - \_\_)$

1. $x^2 + 3x - 10$ **2.** $x^2 + 3x - 18$ **3.** $x^2 + 4x - 12$

4. $x^2 + 7x - 10$ **5.** $x^2 + 3x - 54$ **6.** $x^2 + 4x - 5$

7. $x^2 - 8x - 9$

8. $x^2 - 2x - 48$

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

10. $x^2 - 4x - 21$

11. $x^2 - 4x - 12$

12. $x^2 - 8x - 9$

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Factoring Trinomials (a = 1)

Date_____ Period____

Factor each completely.

1) $b^2 + 8b + 7$

2) $n^2 - 11n + 10$

3) $m^2 + m - 90$

4) $n^2 + 4n - 12$

5) $n^2 - 10n + 9$

6) $b^2 + 16b + 64$

7) $m^2 + 2m - 24$

8) $x^2 - 4x + 24$

9) $k^2 - 13k + 40$

10) $a^2 + 11a + 18$

11) $n^2 - n - 56$

12) $n^2 - 5n + 6$

13) $b^2 - 6b + 8$

14) $n^2 + 6n + 8$

15) $2n^2 + 6n - 108$

16) $5n^2 + 10n + 20$

17) $2k^2 + 22k + 60$

18) $a^2 - a - 90$

19) $p^2 + 11p + 10$

20) $5v^2 - 30v + 40$

21) $2p^2 + 2p - 4$

22) $4v^2 - 4v - 8$

23) $x^2 - 15x + 50$

24) $v^2 - 7v + 10$

25) $p^2 + 3p - 18$

26) $6v^2 + 66v + 60$