

**Day 6 – Factor Trinomials (+, +)  
Practice Assignment**

Name: \_\_\_\_\_

Date: \_\_\_\_\_ Block: \_\_\_\_\_

**Review: Subtract**  $(5x^2 - 3x + 2) - (8x^2 + 4x - 1)$ **Factor the expressions:**

1.  $x^2 + 16x + 64$

2.  $3x^2 + 19x + 6$

3.  $2x^2 + 16x + 32$

4.  $x^2 + 6x + 9$

5.  $5x^2 + 36x + 7$

6.  $2x^2 + 26x + 60$

7.  $7x^2 + 22x + 16$

8.  $x^2 + 6x + 8$

9.  $2x^2 + 21x + 10$

10. Determine the values of  $k$  and  $n$ .

a.  $(x + 4)(x + k) = x^2 + nx + 24$

b.  $(x + k)(x + 1) = x^2 + nx + 5$

c.  $(x + 5)(x + n) = x^2 + 8x + n$

**Day 6 – Factor Trinomials (-, +)  
Practice Assignment**

Name: \_\_\_\_\_

Date: \_\_\_\_\_ Block: \_\_\_\_\_

**Factor the expressions:**

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

2.  $7x^2 - 45x + 18$

3.  $x^3 - 9x^2 + 18x$

4.  $x^2 - 8x + 16$

5.  $2x^2 - 19x + 45$

6.  $4x^2 - 40x + 96$

7.  $3x^2 - 25x + 28$

8.  $x^2 - 12x + 27$

9.  $5x^2 - 35x + 50$

10. Which of the following b values makes the trinomial  $x^2 + bx + 18$  not factorable?

- A. -11
- B. -9
- C. 7
- D. 19

## Day 7 – Factor Trinomials (-, - &amp; +, -)

Name: \_\_\_\_\_

## Practice Assignment

Date: \_\_\_\_\_ Block: \_\_\_\_\_

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**Factor the expressions:**

1.  $x^2 + 3x - 4$

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

3.  $2x^2 + 6x - 8$

4.  $x^2 - 2x - 48$

5.  $7x^2 - 34x - 5$

6.  $4x^2 + 20x - 144$

7.  $5x^2 + 17x - 12$

8.  $x^2 + 5x - 14$

9.  $2x^2 + 14x - 60$

10. Which of the following b values makes the trinomial  $x^2 + bx - 30$  not factorable?

- A. 7
- B. -7
- C. 1
- D. 11

11. Determine the values of k and n.

a.  $(x + 4)(x + k) = x^2 + nx - 24$

b.  $(x + k)(x - 1) = x^2 + nx - 5$

c.  $(x + 5)(x + n) = x^2 + 3x - n$

12. If the area of a rectangle is  $A = x^2 + 4x - 12$ , answer the following:

a. What are the side lengths of the rectangle?

b. What is the perimeter of the rectangle?