

Day 7 – Factor Trinomials (-, - & +, -)**Name:** _____**Practice Assignment****Date:** _____ **Block:** _____**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?