

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

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

**Factoring Trinomials  
Algebra 1 Homework****Skills**

1. If the binomial  $(x-3)$  is one factor of  $x^2 - 10x + 21$ , which of the following is the other factor?

(1)  $(x+7)$

(3)  $(x+5)$

(2)  $(x-18)$

(4)  $(x-7)$

2. The binomials  $(x+5)$  and  $(x-7)$  are both factors of which of the following trinomials?

(1)  $x^2 + 12x - 35$

(3)  $x^2 - 2x - 35$

(2)  $x^2 + 2x + 35$

(4)  $x^2 - 12x + 35$

Factor using the guess-and-check method.

3.  $x^2 + x - 6$

4.  $m^2 - 7m - 18$

5.  $r^2 + 9r + 20$

6.  $x^2 - 7x + 12$

7.  $x^2 + 7x + 6$

8.  $t^2 + 12t + 36$

9.  $p^2 + 12p - 28$

10.  $v^2 - 9v + 18$

11.  $b^2 - 11b + 30$

12.  $y^2 - 7y - 30$

13.  $x^2 + 9x - 36$

14.  $n^2 + 13n + 40$

15. The area of a rectangular field is represented by  $t^2 + 15t - 100$ . The length is  $t + 20$ .

A. Write an expression for the width of the field.

B. Find the dimensions of the field when  $t = 6$

16. Mary is thinking of two binomials that when multiplied together yield the trinomial  $p^2 - 13p - 48$ . What are the two binomials she is thinking of?