Algebra – Factoring Trinomials **Name _____ Date _____**

Considering the general form of a quadratic function, $ax^2 + bx + c$, find the 2 numbers that *multiply* together to get c, the constant in the trinomial, but add together to get b, the coefficient of the x term. Look for patterns among the problems below.

1) $x^2 + 7x + 12$ =

2) $x^2 + 8x + 12$ =

3) $x^2 + 13x + 12$ =

4) $x^2 + 7x \quad 12$ =

5) $x^2 \quad 7x + 12$ =

6) $x^2 \quad x \quad 12$ =

7) $x^2 + x \quad 12$ =

8) $x^2 + 4x \quad 12$ =

9) $x^2 \quad 4x \quad 12$ =

10) $x^2 + 11x \quad 12$ =

11) $x^2 \quad 11x \quad 12$ =

12) $x^2 + 7x + 10$ =

13) $x^2 + 8x + 16$ =

14) $x^2 + 13x + 40$ =

15) $x^2 + 7x \quad 18$ =

16) $x^2 \quad 7x \quad 18$ =

17) $x^2 \quad x \quad 56$ =

18) $x^2 + x \quad 56$ =

19) $x^2 + 4x \quad 60$ =

20) $x^2 \quad 4x \quad 60$ =

21) $x^2 + 11x \quad 26$ =

22) $x^2 \quad 11x \quad 26$ =