

1.4 Simple Trinomials

$$(x^2 + bx + c)$$

Many trinomials are in the form $x^2 + bx + c$ and can be factored using decomposition. The key is to find two numbers that _____ to give you "c" and _____ to give you "b".

Example #1: $x^2 + 9x + 20$

1st →

2nd →

Therefore $x^2 + 9x + 20 =$

Check Your Answer!!!! You can expand the two sets of brackets to see if you did the question correctly.

Example #2: $x^2 + 20x + 75$

1st →

2nd →

Therefore $x^2 + 20x + 75 =$

Example #3: $x^2 - 10x - 24$

1st →

2nd →

Therefore $x^2 - 10x - 24$

Example #4: $x^2 - 3xy + 2y^2$

1st →

2nd →

Therefore $x^2 - 3xy + 2y^2$

Check: $x^2 - 3xy + 2y^2 =$

Homework: Worksheet #1.4