Trinomial: $ax^2 + bx + c$
Factors to: $(x + m)(x + n)$

$x^2 + 7x + 6$

1) Set up 2 pair of () to hold the binomial terms you will create
ex) (   )(   )

2) Split the x term, find factors of c
ex) (x   )(x   )

3) Determine the signs of the binomials
 -**2nd sign of the trinomial** determines if the signs of the
 binomials are the same or different
   a + means use same signs $ax^2 + bx$ **+** c
   a - means use different signs $ax^2 + bx$ **-** c

4) If the signs are the *same* - the 1st sign tells you if they are both + or =
   $ax^2 + bx$ **+** c - both are positive (x +   )(x +)
   ax^2 **-** bx **+** c - both are negative (x -   )(x -)
     ****factors of c must add to middle term

 If the signs are *different* - the 1st sign goes with the bigger number
     ****factors will 'subtract' to middle term (x -   )(x +)

5) Place the factors of c in the binomials with their proper sign
   (check with FOIL)   (x + m)(x + n)

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

$x^2 - 6x - 16$
$\qquad x^2 - 14x + 24$
$\qquad x^2 + 20 - 12x$