Factoring Trinomials

**TRINOMIAL**: A polynomial with 3 terms.

ALWAYS look for a GCF first.
It is a good idea to make leading coefficient positive.
Guess and check method is one of many methods, but not the only one.

Factor the following:
1. \( x^2 - 14x + 45 \)  
2. \( x^2 + 6x + 10 \)

3. \(-8x^2 + 16x - 40\)  
4. \(6x^2 + 7x - 20\)

5. \(2x^2 - 5x - 12\)  
6. \(24 - 22x + 3x^2\)

7. \(8x^2 + 6xy - 5y^2\)  
8. \(x^4 + 4x^2 - 5\)