Trinomials—Part 1

Review of Multiplying Binomials:
\[(x + 2)(x + 3)\] \[(x - 5)(x - 6)\] \[(x - 7)(x + 2)\]

Trinomials with Leading Coefficient = 1: \[x^2 + bx + c:\]

Factor completely:
1. \[x^2 + 9x + 20\]
2. \[x^2 - 10x + 21\]
3. \[x^2 - x - 2\]
4. \[x^2 - 8x - 9\]
5. \[x^2 - x + 10\]

What 2 numbers ___________ to get the constant (c) and __________ to get the middle term (b)?

Combine GCF and Trinomials:
6. \[3x^2 - 15x + 18\]
7. \(2x^3y + 14x^2y - 36xy\)

8. \(-x^2 - 6x - 8\)

9. \(-x^2 + 7x - 12\)

10. \(x^2 - 7xy - 18y^2\)

11. \(-3x^2 + 12xy + 36y^2\)