

**Lesson #10-2: Understanding Basic and Advanced Factoring of Trinomials
(Reference: Lesson #23 & #61 in book)****Problem**

1. Please factor each of the following trinomials.

1. $x^2 + 3x - 54$

2. $x^2 - xy - 12y^2$

3. $x^2 - 9xy + 20y^2$

4. $2x^2 - 3x - 20$

5. $5x^2 - 11x - 12$

6. $5x^2 + 8xy - 21y^2$

7. $8x^2 + 20x - 12$

8. $6x^2 - 23x - 4$

9. $8x^2 - 19xy - 15y^2$

10. $x^5 + 13x^4 + 12x^3$

11. $xy^4 + 5xy^3 - 14xy^2$

12. $5xy^3 - 5xy^2 - 60xy$

13. $9x^3y^2 + 12x^2y^2 - 45xy^2$

14. $18x^4y + 3x^3y^2 - 6x^2y^3$