

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

1. Please factor each of the following trinomials.

1. $x^2 + 5x + 6$

2. $x^2 - 10x + 16$

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

4. $x^2 - 3xy - 18y^2$

5. $3x^2 + 13x + 12$

6. $7x^2 + 19x + 10$

7. $2x^2 - 4x - 30$

8. $4x^2 + 8x + 3$

9. $8x^2 - 4x - 4$

10. $10x^2 + 29xy + 12y^2$

11. $2x^4 - 16x^3 + 30x^2$

12. $6x^3y - 36xy - 50x^2y$

13. $20xy - 35xy^2 - 10xy^3$

14. $2xyz^2 - 10xyz - 48xy$

15. $2x^5 + 6x^4y - 36x^3y^2$

16. $4x^6 - 32x^5y + 60x^4y^2$