

Name _____
Mr. Schlansky

Date _____
Algebra 2

Factoring by Grouping

Factor the following polynomials

1. $x^3 - 5x^2 + 2x - 10$

2. $x^3 + 3x^2 + 4x + 12$

3. $x^3 + 7x^2 + x + 7$

4. $x^3 - 8x^2 + 2x - 16$

5. $x^3 + 12x^2 - 2x - 24$

6. $x^3 + 6x^2 - 3x - 18$

7. $x^3 + 5x^2 - x - 5$

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

9. $8x^3 + 2x^2 + 12x + 3$

10. $4x^3 + 12x^2 - 3x - 9$

11. $x^3 + 3x^2 - 9x - 27$

12. $x^3 + 10x^2 - 9x - 90$

13. $8x^3 + 12x^2 - 2x - 3$

14. $27x^3 + 36x^2 - 12x - 16$

15. $9x^3 + 18x^2 - x - 2$

16. $x^3y^2 + 4x^2y^2 - 4x - 16$