Name_____ Class_____ Date_____

Practice 9-8

Factoring by Grouping

....

Factor each polynomial by grouping.

1. $2x^3 + 4x^2 + x + 2$

2. $2x^3 + 6x^2 + 3x + 9$

3. $5x^3 - 25x^2 + 2x - 10$

4. $2x^3 + 12x^2 - 5x - 30$

5. $7x^3 - 4x^2 + 7x - 4$

6. $9x^3 - 12x^2 - 18x + 24$

7. $xy + 4y - 2x - 8$

8. $ab + 7b - 3a - 21$

9. $ax + bx + ay + by$

10. $ax + bx - ay - by$

11. $2x^2 - 6xy + 5x - 15y$

12. $3x^2 - 6xy + 2x - 4y$

13. $2ax + 6xc + ba + 3bc$

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

15. $6 + 2y + 3x^2 + x^2y$