

Name: _____
PCH: Factoring Polynomials with 6 Terms by Grouping

Date: _____
Ms. Loughran

Factor each completely.

1. $2x^3 + 3x^2 - 5x + 8x^2y + 12xy - 20y$

2. $x^4 - 9x^2 - 6x^3 + 54x - 7x^2 + 63$

3. $x^4 - 25x^2 - 4x^3 + 100x - 12x^2 + 300$

4. $x^3 - 10x^2 + 21x - 4x^2y^2 + 40xy^2 - 84y^2$