

Name: _____
PCH: Even More Factoring Practice Part II

Date: _____
Ms. Loughran

Factor each of the following completely.

1. $3x^3 - x^2y + 6x^2y - 2xy^2 + 3xy^2 - y^3$

2. $x^2 + 6x + 9 - 121y^2$

3. $(x+2)^3 - 16x - 32$

4. $x^2 + 2x + 1 - y^2$

5. $(4x^2 - 6x)^2 - (4x^2 - 6x) - 2$

6. $(x^2 + 2x + 5)^2 - 4(x^2 + 2x + 5) - 5$

7. $a^2 - b^2 - 14b - 49$

8. $a^2 - b^2 + 12b - 36$

9. $x^4 + 6x^2 + 25$

10. $4x^4 + 8x^2 + 9$

11. $9x^4 + 3x^2 + 4$

12. $16x^4 - x^2 + 1$