Name _____

Ch 9.1 and 9.2 Review Worksheet

Simplify. Write each answer in standard form.

1. $(4x - 5y + 3) + (2x + 7y - 7)$

2. $(3a^2 + 5a - 6) - (2a^2 - 3a - 9)$

3. $(6x^2 - 3x + 2) + (3x^2 + x - 5)$

4. $(4x^2 + 2x - 7) - (-3x^2 - 6x + 2)$

5. $(6z^3 - 5z^2 + 1) + (8z^3 + 7z^2 - 4)$

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

Use the GCF to factor each polynomial.

7. $12k^3 + 6k^2 - 18k$

8. $6x^3 - 4x^2 + 8x$

9. $8p^4 + 12p^2 + 4p$

10. $36x^2 - 18x$

11. $6x^2 + 18x$

12. $6x^3 - 2x^2 + 8x$

13. $6x^3 + 6x^2 - 6x$

14. $5x^3 + 5x^2$

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

16. $10x^2 + 35x$

17. $8x^5 + 16x^4 - 8x^3$

18. $9x^3 - 6x^2 - 15x$