

Adding and Subtracting Polynomials Assignment

Simplify the following polynomials

1. $5y - 5 + 2y + 7$

2. $7m + 5n + 5m - n$

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

4. $x^2 + 3xy + y^2 + 2x^2 + 5xy - y^2$

5. $1 - 6a + 5 - 4a + 3a^2$

6. $2a^3 - 3a^2 - 5a + a^2 + 5a + 10$

7. $x^3 - 1 - (x^2 + 8)$

8. $7a^2 + 3a - 2 - (2a + 16)$

Perform the Indicated operation

9. add $5a - 3b + 6$;
 $-6a + 2b - 12$

10. subtract $2x + 3xy - 4y$ from
 $3x - xy + 5y$

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11. add $xy - 2x^2y + xy^2 + 3;$
 $-2xy^2 + 5xy - 6x + 4x^2y$

12. subtract $x^3y^2 - 3xy^3 + 2y^2 + 5$ from
 $5x^3y^2 + 4xy^3 - 2x - 5y^2$

Simplify the following remove the grouping symbols

13. $\{-3x - [2x - 3 - (6x + 3) - 9] + 17\} + 2$

14. $[2x + y - (4 - 2y + 4x)] - (6x - 5y + 4)$

15. $\{-[2x + 5y + 3 - (3x - 7y + 9) - 19]\} - 9$

16. $-\{2a^3 - [-3a^2 - (-5a)] + a^2 + (-5a + 10)\}$

17. $\{1 - [-6a + (-5 - 4a)] + 3a^2\} - 10$

18. $-\{9x^2 - [-3x + (-2 + x^2)] - 4\}$

19. $-\{-2x - y - [3x - (4x + y - 3) - y] - 7\}$

20. $-\{3x + 4y - (7x - 8)\} - \{3x - [-4y - (x - 5)]\}$