

Math 1513 - College Algebra

Discussion Board Week 1 - Due 2017.06.11

Simplify by removing all grouping symbols and combining like terms.

1. $5(a^3 - 2a^2 + b) - 4(a^2 + a - b^2 + ab - 10)$

2. $2(a^2 + 2a - b^2 + 2) + 2(a + 3a^2 - 3ab^2 + 10b)$

3. $3(2a^2 + b^2 - 4a + 2b) - 9(b^2 + b - 10a^2 + 3a + 5)$

4. $7(a^2 + 7b^2 + b - a - 7) + 5(a^3 + a^2 - b^2 - 6b)$

5. $8(a^2 - 2a + b^2 + 5b) - 4(3a^3 + a^2 + 5b^2 + b + 1)$

6. $-3(4a^2 + 2a^3 + b - b^4) + 3(a^3 + a^2 - b^4 + b)$

7. $5(x^2 - 2xy + 6y^2 - y + x) - 6(x^3 + xy - y^2 + 3x)$

8. $15(2x^2 + 3x^2y + 6y - y^3 + x) + 2(x^3 + xy^2 - y^2 + 3x)$

9. $2(x^3 + 5xy - 6x^2 - y + x^2) + 7(x^2 - xy - x^2 - 3x + 6)$

10. $5(x^3 + 5x^2y - 6x^2 - y + x^2 - 2) - 6(3x^2 + 6xy^2 + x^2y - 5y)$

11. $3(-x^2 + 5x^2y - 6x^3 - y^2 + x - 2) + 2(7x^2y - 6xy^2 + xy - 5y + 2 - x)$

12. $8(x^2 + 5xy - 6x^3 - y^2 + x - 2) + 5(7xy - 6x + y - 5y^2 + 13)$

13. $-9(x^3 + 5xy - 8x - y^2 + x^2 - 2y) - 7(x^3 - x^2y + 7xy^2 + y^2 - 4x^2 + 2)$

14. $5(m^3 - 2n^2 - 3mn - 7 + n) - 3(m^2 - n^3 + 4mn + m - 6n + 3)$

15. $3(3m^3 + 2n^2 - 3mn - 14n - m + 12) - 6(m^2 - m^3 + n^2 - 4mn + m - 7n + 3)$