

Assignment 5

Practice Test for Test 1

Simplify each expression.

1. $(3x^2 + 2)(2x^2 - 4)$

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

3. $(-3x^2y)(5x^3y^2)(-y^3)$

4. $(x^2 + y)(x - y)$

5. $(5x - 2)(5x + 2)$

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

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

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

9. $(-x^3y)^3(4xy^2)(-x^2y)^5$

10. $(2x^2yz^3)^3$

11. $(3x^3y^2)(-2x^2)(-3xy^3)$

12. $x^3 - 5x^2 + 3x + 2x^3 + 8x^2 - 3x + 2$

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13. $5x^3(x^2y + 2xy^2 - 5y^3)$

14. $(-2x^3y^2)^2(-5xy^2)(xy^2)^3$

15. $(x + 5)(x - 7)$

16. $3x^2 + 4x - 9 + 5x^3 - x^2 + 2x - 1$

17. $(3x + y)(3x + y)$

18. $(-2a^4b^2c^3)^3$