

NAME: _____

FINAL REVIEW #2

DATE: _____

ALGEBRA 1A

Directions:

a. Put in simplest form.

b. Identify as a monomial, binomial, trinomial, or polynomial.

c. What is the degree of the polynomial?

1. $3x - 6x^3 + x^4$

2. $7x + x^2 - 5 + x^3$

3. $-8 + 8r$

4. $2c - 8c^2 - 4 + 2c + 7 + 8c^2$

Simplify:

5. $4x - 9x$

6. $8(7y)$

7. $9xy + 4xz + 2xy + 5xz$

8. $\frac{-56a^2b^5}{7a^2b}$

9. $3x^2(5x^7)$

10. $3x(2x + 7)$

11. $\frac{45x^2 - 55x^3}{5x^2}$

12. $3x(x^4)^3$

13. $2y + x - (7y + 9x)$

14. $2x^{-5}$

15. $7x^0$

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

17. $(5a^3)^2$

18. $x^2(9x^3y^3)$

19. $3(y + 4) + 2(y - 1)$

20. $(x - 3)^2$

21. $\frac{c^{-2}d^3}{c^3d^2}$

22. $-2(3x^2)^0$

23. What is the quotient of $6b^5 + 9b^2$ and $-3b$?

24. What is $5n - 1$ subtracted from $-3n - 5$?

25. Find the product between $x + 3$ and $x - 3$.

26. Find the difference of $2b - 3b^2$ and $b^2 - b$ increased by $5b^2 - 7b$.