

NAME: _____

REVIEW 6

DATE: _____

ALGEBRA

For the following identify the type of polynomial.

1. $y^2 - 3y - 7$

2. $3d^2$

3. $5d + 9$

For the following:

a. Write each polynomial in standard form.

b. Identify the degree of the polynomial.

4. $3x^2 - 2x + 5x - 6x^3$

5. $3b^4 + 3a^2b^2 + ab^3 + a^3b - a^4$

Simplify.

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

7. $(-2d^2 + d + 3) - 5(d^2 + 2d - 1)$

8. $(gm)(-3g)(4m^2)$

9. $(6ab^3)^2$

10. $\frac{(w^4)^6}{w^2}$

11. $4x(x - 1)$

12. $(3x^{-4})^2$

13. $(3x + 7)^2$

14. $(2x - 1)(x - 4)$

15. $\frac{7a^3b^2c^5}{-28a^2b^2c^2}$

16. $\frac{5^3(5^2)}{5^4}$

17. $(9b + 4) - (b - 8)$

18. $5(2k^2 - 3k) - 7k^2$

19. $(2x + 1)(2x - 1)$

20. $\frac{33x^3y^2 - 11x^2y^3 + 11xy}{11xy}$

21. $a - (a - 5)(a + 2)$

22. $3x - 7(3x - 7)$

23. $(2n + 3)(n^2 - 4n - 1)$

24. $(-2a^2b^2)^3 + (4a^3b^3)^2$