

POLYNOMIALS REVIEW



NAME _____ PERIOD _____

Simplify:

1. $x^6x^2x^{-2}$

2. $(5x^4y^3)(-3x^6y^{-2})(3x^{-3}y^9)$

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

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

5. $\frac{x^5y^6}{x^{-7}y^4}$

6. $\frac{4x^5y^3}{2x^5y^9}$

7. $-20x^3y^2 + 15xy^2 + 17x^2$

What is the degree of the polynomial?

Is it a monomial, binomial, or trinomial?

8. $43s^8t$

What is the degree of the polynomial?

Is it a monomial, binomial, or trinomial?

9. Write the following polynomial in standard form.

$$3x - 4x^3 + 3 - 7x^2$$

10. $(7x^2 + 11) + (5x^2 - 4x + 10)$

11. $(3x^4 - 8x^3)(2x^6 - 2x^2 + 4)$

12. $4x^3y^2(9x^3y^6 - 19x^3 - 5y^2)$

13. $(12x^2 + 4x + 8) - (7x^2 + 10x - 10)$

14. $(6x + 2)(2x - 4)$

15. $(2x + 12)^2$

Good luck on the test!!!