Nickname: _____ No.: _____ Class: _____

Part I: Simplify each problem.

1. $12x^2(-4x)$ =	2. $\frac{28x^4}{14x^2}$ =	3. $x^2y^3(x^2y^4z)$ =
4. $2x + 3x + 6x$ =	5. $12y^2 - 14y^2$ =	6. $10x - 8 + 2 + 3x$ =
7. $\frac{8x^8}{2x^3}$ =	8. $(9999999x^{9999})^0$ =	9. $(2x^2 + 4x) - (2x^2 + 4x)$ =

Part II: Multiply the polynomials.

10. $3x(2x - 1)$ =	11. $5(6x + 2)$ =
12. $(x + 2)(x - 2)$ =	13. $(2x - 3)(2x + 3)$ =
14. $(3x - 1)(2x - 4)$ =	15. $(x^2 + 2x)(4x^2 - 5)$ =

Part III: Divide the polynomials.

16. $\frac{6a^7b^3}{3a^2b}$ =	17. $-\frac{2y^9}{y^6}$ =
18. $(10x^2 + 20) \div 10$ =	19. $(3x^3 - 2x^2) \div x^2$ =
20. $(-12x^4y^5z + 16x^2y^3) \div 4xy$ =	21. $(54a^4b^3c^2 - 27a^3b^3c^3) \div 9a^3b^3c^3$ =