

Name: _____

Unit 6: Exponents



Date: _____

Bell: _____

Homework

Negative Exponents

Directions: Simplify the following monomials. Your answer should contain positive exponents only!

1. x^{-7}	2. $5x^2y^{-3}$	3. $-4a^{-2}b^{-2}$
4. $(ab^2)^{-4}$	5. $-8(x^{-3}y^4)^{-5}$	6. $(3x)^{-3}$
7. $(a^{-2})(a^{-3})$	8. $(x^3)^{-3}(-2y^5)^4$	9. $(a^2b^3)^{-2}(a^5b^4)^{-3}$
10. $(2r^4)^{-5}$	11. $(-11x^3y)^{-2}$	12. $(x^3y^6)^{-2}$
13. $\frac{m}{m^2}$	14. $\frac{-4x^2}{24x^5}$	15. $\frac{-21w^5x^2}{7w^4x^5}$
16. $\frac{9a^2bc^4}{15ab^3c^5}$	17. $\frac{9x^4y^3}{3x^{10}y^7}$	18. $\frac{7a^5b^6c}{14a^5b^9}$
19. $\frac{-9xy^5z^3}{36xy^4z^5}$	20. $\frac{-15r^6s^7t^4}{3r^2s^9t^7}$	21. $\frac{(4x^2y^5)^2}{(2xy^2)^3(3x^3)^2}$