

Exponent Rule Notes

Name	Rule	Example
Adding and Subtracting	Combine like terms, don't change common variables or exponents	$9x^2y - 10x^2y$
Product	Base stays the same Add exponents Multiply coefficients	$x^a * x^b = x^{a+b}$
Power	Base stays the same distribute coefficient add exponents	$(x^a)^b$
Quotient	Base stays the same divide coefficient Subtract Exponents	x^a / x^b
Negative Exponent	Base stays the same Coefficient follows operation Exponent, put 1 over change to positive	$x^{-a} = 1/x^a$