

Algebra 1 Reference Sheet

Additive Identity	Additive Inverse	
$a + 0 = a$	$a + (-a) = 0$	
Multiplicative Identity	Multiplicative Inverse	Multiplicative Property of Zero
$a \cdot 1 = a$	$\frac{a}{a} = \frac{a}{a} = 1$	$a \cdot 0 = 0$
Associative Property of Addition		Associative Property of Multiplication
$(a + b) + c = a + (b + c)$		$(ab)c = a(bc)$
Commutative Property of Addition		Commutative Property of Multiplication
$a + b = b + a$		$a \cdot b = b \cdot a$
Distributive Property		
$a(b + c) = ab + ac$ and $(b + c)a = ba + ca$		

Slope	Slope-Intercept Form	Point-Slope Form	Standard Form
$m = \frac{y_2 - y_1}{x_2 - x_1}$	$y = mx + b$	$y - y_1 = m(x - x_1)$	$Ax + By = C$

Product of Powers	Power of a Power	Power of a Product	Quotient of a Power
$a^m \cdot a^n = a^{m+n}$	$(a^m)^n = a^{mn}$	$(ab)^m = a^m b^m$	$\frac{a^m}{a^n} = a^{m-n}$
Power of Quotients	Zero Exponent Property	Negative Exponent Property	Power of a nth root
$\left(\frac{a}{b}\right)^m = \frac{a^m}{b^m}$	$a^0 = 1$	$a^{-m} = \frac{1}{a^m}$ $\frac{1}{a^m} = a^{-m}$	$a^{\frac{1}{n}} = \left(\sqrt[n]{a}\right)$
Product of roots	Quotient of roots		
$\sqrt[n]{a} \cdot \sqrt[n]{b} = \sqrt[n]{ab}$	$\frac{\sqrt[n]{a}}{\sqrt[n]{b}} = \sqrt[n]{\frac{a}{b}}$		

Exponential Growth	Exponential Decay	Compound Interest
$y = a(1 + r)^t$	$y = a(1 - r)^t$	$A = P\left(1 + \frac{r}{n}\right)^{nt}$

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**Florentin Smarandache, Surapati
Pramanik**



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