Cheatography

Laws of exponents			
a ^m × a ⁿ	=	a ^{m + n}	
a ^m ÷ a ⁿ	=	a ^{m - n}	
(a ^m) ⁿ	=	a ^{mn}	
(a / b) ^m	=	a ^m / b ^m	
(a ± b) ^m	ŧ	a ^m ± b ^m	
a⁻ ^m	=	1 / a ^m	
a ^{m / n}	=	ⁿ √a ^m	
1 ^a	=	1	
a ⁰	=	1	
0 ^a	=	0	
0 ⁰	\rightarrow	not defined	

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	Operations			
	a ⁿ $\sqrt{c} \pm b^{n} \sqrt{c}$	=	(a ± b) ⁿ √c	
	a ⁿ $\sqrt{c} \times b^{n} \sqrt{d}$	=	(a × b) $\sqrt[n]{(c × d)}$	
	Conjugate			

ⁿ √a + ⁿ √b	\rightarrow	ⁿ √a - ⁿ √b
ⁿ √a - ⁿ √b	\rightarrow	ⁿ √a + ⁿ √b

√((a + b) + 2√(ab)) =	√a + √b

Properties of logarithms

Expo and Log Cheat Sheet

Ra	d	ica	IS

even root of positive number	\rightarrow	postive and negative
even root of negative number	\rightarrow	none
odd root of positive number	\rightarrow	positive
odd root of negative number	\rightarrow	negative

С

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