

Algebra 2 Finals Cheat Sheet Cheat Sheet by justind23 via cheatography.com/21820/cs/4307/

Trigonometry

Reciprocal identities $\sin\theta = \frac{1}{\csc\theta} \qquad \cos\theta = \frac{1}{\sin\theta} \qquad \sin(\alpha\pm\beta) = \sin(\cos\beta\pm\cos\sin\beta) \\ \cos\theta = \frac{1}{\sec\theta} \qquad \cos\theta = \frac{1}{\cos\theta} \qquad \sin(\alpha\pm\beta) = \sin\alpha\cos\beta \\ \tan\theta = \frac{1}{\cot\theta} \qquad \cot\theta = \frac{1}{\tan\theta} \qquad \cos\theta \\ \tan\theta = \frac{1}{\cot\theta} \qquad \cot\theta = \frac{1}{\tan\theta} \qquad \cos\theta \\ \cos\theta = \tan\theta \qquad \cot\theta = \frac{1}{\tan\theta} \qquad \cot\theta = \frac{1}{\tan\theta} \\ \cos\theta = \tan\theta \qquad \cot\theta = \frac{1}{\tan\theta} \qquad \cot\theta = \frac{1}{\tan\theta} \\ \cos\theta = \tan\theta \qquad \cot\theta = \frac{1}{\tan\theta} \qquad \cot\theta = \frac{1}{\tan\theta} \\ \cos\theta = \tan\theta \qquad \cot\theta = \frac{1}{\tan\theta} \qquad \cot\theta = \frac{1}{\tan\theta} \\ \cos\theta = \cot\theta \qquad \cot\theta = \frac{1}{\tan\theta} \\ \cos\theta = \cot\theta \qquad \cot\theta = \frac{1}{\tan\theta} \\ \cos\theta = \cot\theta \qquad \cot\theta = \frac{1}{\tan\theta} \\ \sin\theta = \cot\theta \Rightarrow \cot\theta = \frac{1}{\tan\theta} \\ \sin\theta = \cot\theta \Rightarrow \cot\theta = \frac{1}{\tan\theta} \\ \sin\theta = \cot\theta \Rightarrow \cot\theta \Rightarrow \cot\theta = \frac{1}{\tan\theta} \\ \cot\theta = \frac{1}{\tan\theta} \Rightarrow \cot\theta = \frac{1}{\tan\theta} \\ \sin\theta = \cot\theta \Rightarrow \cot\theta \Rightarrow \cot\theta = \frac{1}{\tan\theta} \\ \cot\theta = \frac{1}{\tan\theta} \Rightarrow \cot\theta = \frac$

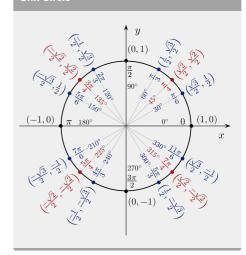
Parent Functions

Graph	Parent Function	Graph
1v /	y = x	N IV
1 /	Abrolute Value Suce	
1 /		
1/ .	Domain: (-∞,∞)	
	Range: [0.∞)	
/:		
	$x \rightarrow \infty, y \rightarrow \infty$	
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13/	Radical, Neither	
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	Range: [0,∞)	
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1/ .	Domain: (−∞,∞)	
	Range: (-∞,∞)	***************************************
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1:		
31/		, , , , , , , , , , , , , , , , , , ,
1/	Log, Neither	
1/	Domain: (0,∞)	
4	Range: (-∞,∞)	I
		/
	$x \rightarrow \infty, y \rightarrow \infty$	
	u_1	
-1×	7 - x'	
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	Range: (0,∞)	
	End Rehavior	
	Constant, Even	
	Domain: (-m.m)	•
		
	nange: {y:y=C}	
	End Behavior:	
	$x \rightarrow -\infty, y \rightarrow C$	
	Graph	y= x Absolute Value, free Domain: (-∞x) Barger: (0x) Farger: (0x) Fa

Exponentials and logarithms

Logarithmic y = In x Exponential y=b^x

Unit Circle



Interval Notation

Interval notation	Set Notation	
D:[1,+∞)	D: $\{x x \ge 1\}$	
All quadratic functions (e.g. y = x²) have their domain defined as:		
D:[-∞,+∞)	D: $\{x x \text{ all Real numbers}\}$	
A quadratic function that opens downward with the vertex at (0,3):		
R:[-∞,3)	$R: \{y y \le 3\}$	
For a quadratic function that opens upward with a vertex at (0,2):		
R:[2, +∞)	$R: \{x x \ge 2\}$	

Domain and range

Domain: The domain of a function is the set of all possible input values (often the "x" variable), which produce a valid output from a particular function. It is the set of all real numbers for which a function is mathematically defined. Range: The range is the set of all possible output values (usually the variable y, or sometimes expressed as f(x)), which result from using a particular function.

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