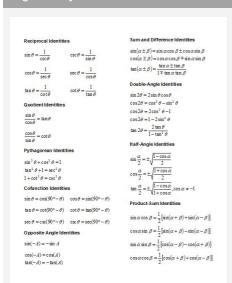


Algebra 2 Finals Cheat Sheet Cheat Sheet by justind23 via cheatography.com/21820/cs/4307/

Trigonometry



Parent Functions

Parent Function	Graph	Parent Function	Graph
y = x	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	y = x	
Linear, Odd		Absolute Value, Even	
Domain: (-∞.∞)		Domain: (-xx.xx)	\ \ \ \ \ \
Range: (-0,0)			
		Range: [0,∞)	
End Behavior:		End Behavior:	
$x \to -\infty$, $y \to -\infty$ $x \to \infty$, $y \to \infty$		$x \rightarrow -\infty, y \rightarrow \infty$	
		$x \rightarrow \infty, y \rightarrow \infty$	
y – x ²	1 1× 1× 1	v – √x	
Quadratic, Even	V 3 /	Radical, Neither	3
Domain: (-∞,∞)	\ \ \ \ / \ /		
		Domain: [0,∞)	
Range: [0,∞)		Range: [0,∞)	
End Behavior:		End Behavior:	
$x \to -\infty$, $y \to \infty$		End Behavior: $x \to \infty$, $y \to \infty$	
$x \to \infty$, $y \to \infty$			
y = x ³	3×+	y = ³ √x	
Cubic, Odd	1	Cube Root, Odd	
Domain: (-00.00)	1 / /	Domain: (-∞.∞)	
Range: (-cc,cc)	1	Range: (-∞,∞)	
natige: (-w,w)	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	halige. (-w,w)	
End Behavior:		End Behavior:	
$x \rightarrow -\infty, y \rightarrow -\infty$		$x \rightarrow -\infty, y \rightarrow -\infty$	
$x \rightarrow \infty$, $y \rightarrow \infty$		$x \rightarrow \infty, y \rightarrow \infty$	
$y = b^x$, $b > 1$	14 /	$y = \log_{o}(x), b > 1$	1×
Exponential, Neither	1/	Log, Neither	
Domain: (-cc.cc)	1	Domain: (0,∞)	
Range: (0,00)	· · · · · · · · · · · · · · · · · · ·	Range: (-∞,∞)	I
		E-18-1	
End Behavior: x→-∞, v→0		End Behavior:	
$x \rightarrow -\infty, y \rightarrow 0$ $x \rightarrow \infty, y \rightarrow \infty$		$x \rightarrow 0^{\circ}, y \rightarrow -\infty$ $x \rightarrow \infty, y \rightarrow \infty$	
A 7-, y-y-			
y = 1		$y = \frac{1}{x^2}$	
y =x	1		110
Rational (Inverse), Odd		Rational (Inverse Squared), Even	4
Domain: (-∞.0)∪(0.∞)			(A)
Range: (-∞,0)∪(0,∞)		Domain: (-∞,0)∪(0,∞)	***********
		Range: (0,∞)	
End Behavior: $x \rightarrow -\infty$, $y \rightarrow 0$		End Behavior:	
x→∞, y→0 x→∞, v→0		$x \rightarrow -\infty, y \rightarrow 0$	
x→w, y→0		$x \to \infty$, $y \to 0$	
y = int(x) = [x]	THE PROPERTY OF THE PARTY OF TH	y = C	
Greatest Integer,		(y = 2 in the graph)	
Neither		Constant, Even	
		Dameler (m m)	•
Domain: (-∞,∞)		Domain: $(-\infty,\infty)$ Range: $\{y:y=C\}$	
Range: (y:y e Z) (integers)	-7		
End Behavior:		End Behavior:	
$x \rightarrow -\infty, y \rightarrow -\infty$	I	$x \rightarrow -\infty, y \rightarrow C$ $x \rightarrow \infty, y \rightarrow C$	
$x \to \infty$, $y \to \infty$			

Exponentials and logarithms

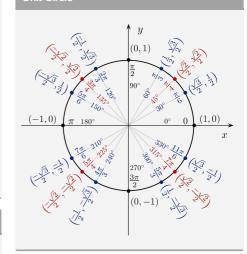
Logarithmic

y = In x

Exponential

y=b^x

Unit Circle



Interval Notation

Interval notation	Set Notation		
D:[1,+∞)	$D\colon \{x x\geq 1\}$		
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, +∞)	$R \cdot \{x x \ge 2\}$		

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.

C

By justind23

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