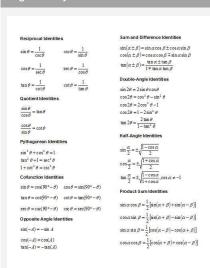


Algebra 2 Finals Cheat Sheet Cheat Sheet by justind23 via cheatography.com/21820/cs/4307/

Trigonometry



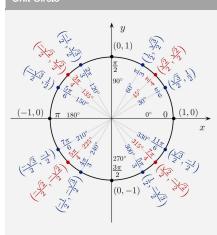
Parent Functions

Parent Function	Graph	Parent Function	Graph
y = x Linear, Odd	1 /	y= x Absolute Value, Even	\
Domain: $(-\infty, \infty)$ Range: $(-\infty, \infty)$		Domain: (-∞,∞) Range: [0,∞)	
End Behavior:	/ 1	End Behavior:	
$x \to -\infty$, $y \to -\infty$ $x \to \infty$, $y \to \infty$	/ 1	$x \to -\infty$, $y \to \infty$ $x \to \infty$, $y \to \infty$	
y - x2	11111111111111111111111111111111111111	v = √x	
Quadratic, Even	\ 1 /	Radical, Neither	
Domain: $(-\infty,\infty)$ Range: $[0,\infty)$		Domain: [0,∞) Range: [0,∞)	
End Behavior:			
$x \to -\infty$, $y \to \infty$ $x \to \infty$, $y \to \infty$		End Behavior: $x \to \infty$, $y \to \infty$	
v - x ³	1 1 1	y – ∛x	
Cubic, Odd	1/	Cube Root, Odd	
Domain: $(-\infty,\infty)$ Range: $(-\infty,\infty)$		Domain: $(-\infty,\infty)$ Range: $(-\infty,\infty)$	j
End Behavior: x → -∞, y → -∞	/1	End Behavior: x→-∞, y→-∞	•
$x \to \infty$, $y \to \infty$	111111111111111111111111111111111111111	$x \rightarrow \infty$, $y \rightarrow \infty$	
$y=b^*, b>1$	1× /	$y = \log_b(x), b > 1$	
Exponential, Neither	1/	Log, Neither	
Domain: $(-\infty, \infty)$ Range: $(0, \infty)$		Domain: $(0, \infty)$ Range: $(-\infty, \infty)$	
End Behavior:		End Behavior:	
$x \to -\infty, y \to 0$ $x \to \infty, y \to \infty$		$x \rightarrow 0^{\circ}, y \rightarrow -\infty$ $x \rightarrow \infty, y \rightarrow \infty$	
1		y - 1	
y — x	*	Rational (Inverse	
Rational (Inverse), Odd		Squared), Even	#\
Domain: $(-\infty,0)\cup(0,\infty)$ Range: $(-\infty,0)\cup(0,\infty)$		Domain: $(-\infty,0) \cup (0,\infty)$ Range: $(0,\infty)$	
End Behavior: $x \rightarrow -\infty$, $y \rightarrow 0$		End Behavior:	
$x \rightarrow -\infty$, $y \rightarrow 0$ $x \rightarrow \infty$, $y \rightarrow 0$		x → -∞, y → 0	
y = int(x) = [x]	and the property of the same	$x \rightarrow \infty, y \rightarrow 0$ y = C	
Greatest Integer,	1	(y = 2 in the graph) Constant, Even	
Domain: (-∞,∞) Range: (y: y e Z) (integers)		Domain: $(-\infty, \infty)$ Range: $\{y: y = C\}$	
End Behavior:		End Behavior: x→-∞, y→c	
$x \to \infty$, $y \to \infty$	-111-1111-1111-111-11	$x \rightarrow \infty$, $y \rightarrow C$	

Exponentials and logarithms

Logarithmic y = ln x Exponential y=b^x

Unit Circle



Interval Notation

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

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.

C

By justind23

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