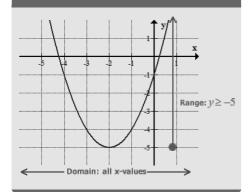
Cheatography

algebra 2 by Kait_the_grr8 via cheatography.com/21677/cs/4284/





Solving domain and range

y=x²+x-2/x²-x-2 domain-->[function]range-->

Family function (transformation)

y=a0 f(ax-h)-k
y=c is a horizontal line
y=x the pints on the graph have points (a,a)
y=x² graph is shaped like a U
y=x³ graph is symmetrical about the origin
y=1/x graph has to branches
y=|x| graphed like a V
y=[[x]] is greater than the integer less than or equal to x

Trigonometry

Sin=opposite/hypotenuse cos=adjacent/hypotenuse tan=opposite/adjacent Tan=Sin/Cos Sec=1/cos Csc=1/sin Cot=1/Tan or Cos/Sin

Log expanding and simplifying

 $Logb(m^n)=n*Logb(m)$

- Multiply the inside log and turn into addition outside the log and vice verse
 Joivide inside the log and turn into
- subtraction outside the log, vice versa
 3.) exponent on everything inside a log can be moves out in front as a multiplication, vice versa.

The Relationship: "logb(x) = y" means the same thing as "b y = x"

Logarithms are really exponents (powers); they're just written differently

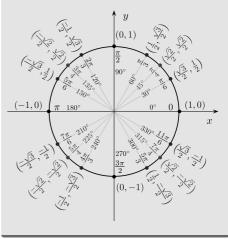
logb(b) = 1, for any base b, because b1 = b

logb(1) = 0, for any base b, because b0 = .

logb(a) is undefined if a is negative

logb(0) is undefined for any base . logb(bn) = n, for any base b

Unit Circle



Angle Difference and Sum

sin (A+B)=sin A cos B+ cos A sin B cos (A+B)= cos A cos B-sin A sin B tan (A+B)= tan A + tan B/ 1-tan A tan B sin (A-B)=sin A cos B- cos A sin B cos (A-B)= cos A cos B+sin A sin B tan (A-B)= tan A - tan B/ 1+tan A tan B



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