MHF 4UI UNIT 4 Exponential and Logarithmic Functions

Day 2 - Exponential Functions

BASIC EXPONENTIAL CURVE (y=a^x)









 $\lim_{x\to -\infty} =$

 $[\]lim_{x\to\infty} =$

** Base MUST BE POSITIVE!!!

For example we can NOT PLOT $y = (-2)^{x}$



... We define Exponential Functions to be:

$$y = a^x$$
 and 0 , the and $a = (1, \infty)$

Transformations can also be applied to Exponential Functions

Example: Describe the transformations applied to the following function, then graph:



4UI Unit 4 Day 2 - Exponential Functions.notebook

Example 2: Evaluate each of the following limits:



TI Emulator Files.zip

Vti.exe