Questions from homework? Feb 3-12:53 PM

Introduction Part 2

Learning goals:

Today we will:

- -review types of functions
- -review domain and range

In this course we will be looking at a variety of		
functions:	base	base
	equation(s)	graph(s)
polynomial		
trigonometric		
rational		
exponential	_	
logarithmic	_	

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Recall:	
Domain:	
	_
Range: -	_
Remember that restrictions on the domain	
and range can lead to ASYMPTOTES	
	_
	_
	_

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Recall:	
Function Notation	
y = 2x + 1	$y = x^2 + 3$
f(x) = 2x + 1	$g(x) = x^2 + 3$
Ex:	
Given: $f(x) = 2x + 1$	Solve for $f(2)$

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y = x	10 ⁴ y
	5
Function notation:	x
	-10 -5 0 5 10
D '1	
Describe:	-10

Let's look at some functions and their graphs.	
$y = x^2$	AV
Function notation:	60 50 40 30
Describe:	20 10 10 8 4 2 0 2 4 6 8

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These are called PARENT FUNCTIONS		
(or base curves).		
,		
If we were to modify them we would say		
that we are looking at transformations.		

Quick review of factoring:

1/ Common Factoring: $6x^4 - 9x^2$

2/ Simple Trinomial Factoring $^2 + 3x - 10$

3/ Decomposition = $8a^2 - 2a - 15$

4/ Difference of Squayes $4x^2 - 36$

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Homework
p2 #1bd, 3, 4, 5
p2 π1ο u , 3, 1 , 3

transformed functions 1.gsp



transformed_functions_2.gsp