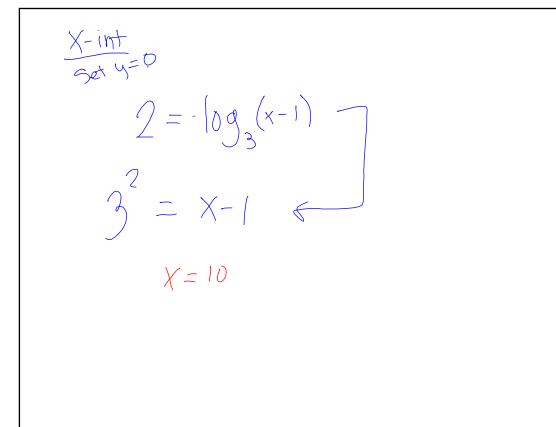


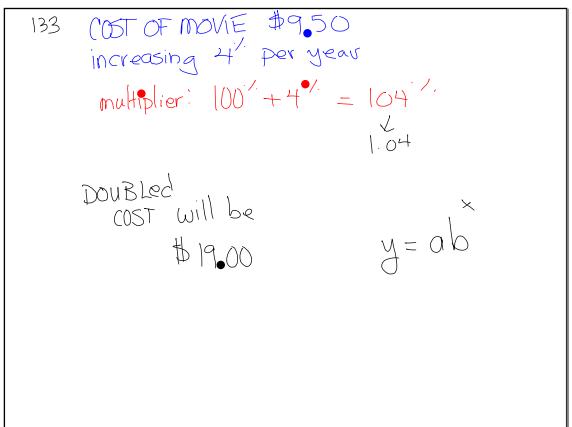
a. $y = 2x^3 - 10x^2 - x$ $0 = 2x^3 - 10x^2 - x$ y-mt(a,)



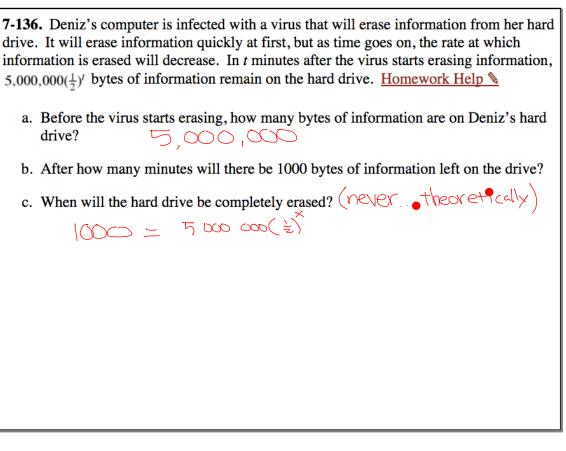
7-134. Change each equation to graphing form. For each equation, find the domain and range and determine if it is a function. Homework Help $\$

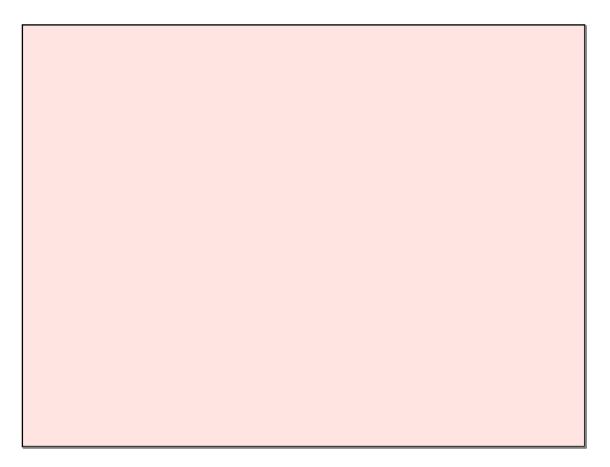
a.
$$y = -2x^2 - x + 13$$

b.
$$y = -3x^2 - 6x + 12$$



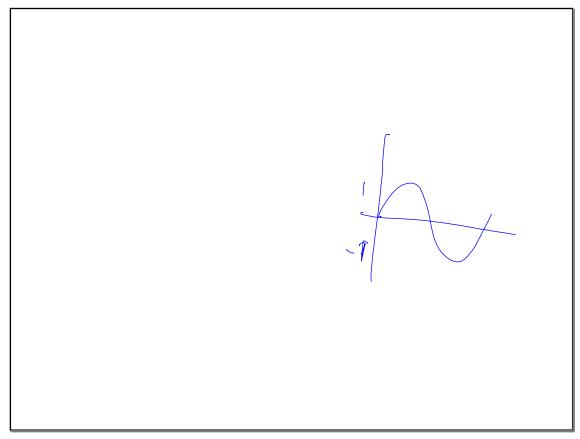
$$\begin{array}{l}
 |9 = 9.50 (1.04)^{t} \\
 divide \\
 \frac{19}{9.50} = (1.04)
 \end{array}$$

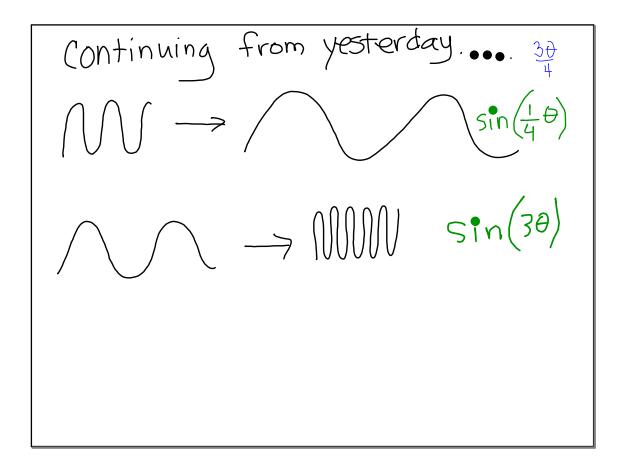


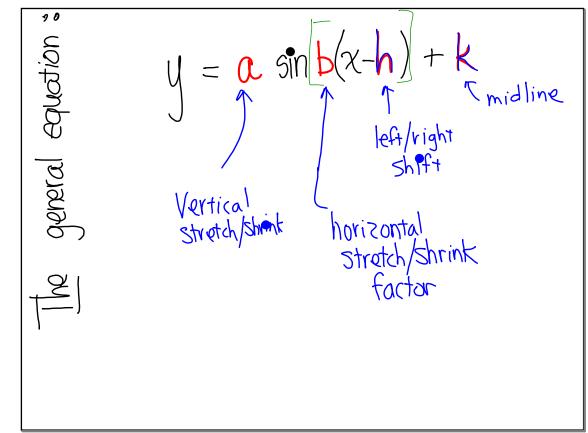


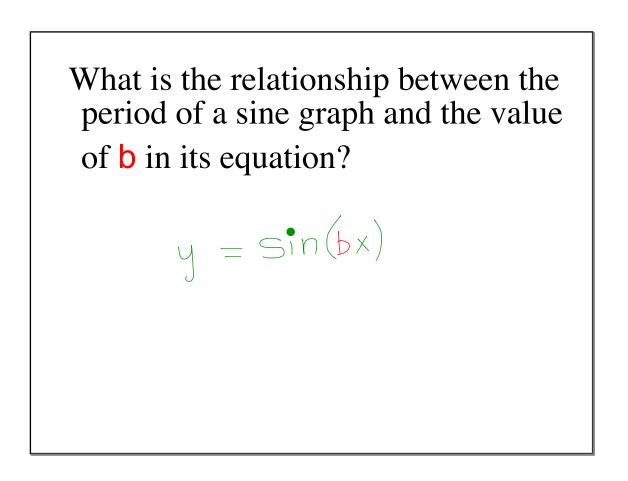
Today loday Analye and for graph Periodic Functions (Using all 4 Porramieters) abhK

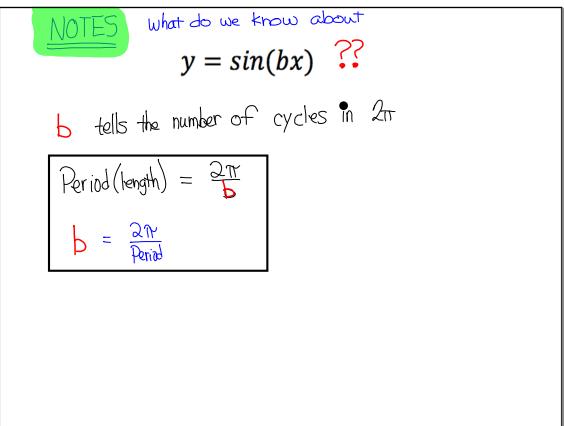
The big idea In order to model sine (or cosine) waves that occur in real situations, we need to be able to position the wave anywhere in the coordinate plane. Thus, we have a need to make both scale changes and translations to our waves.





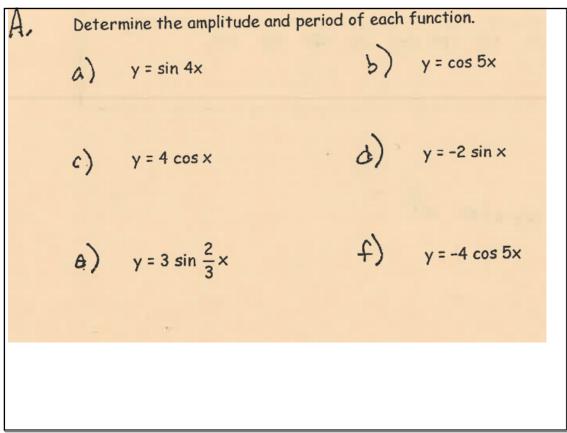




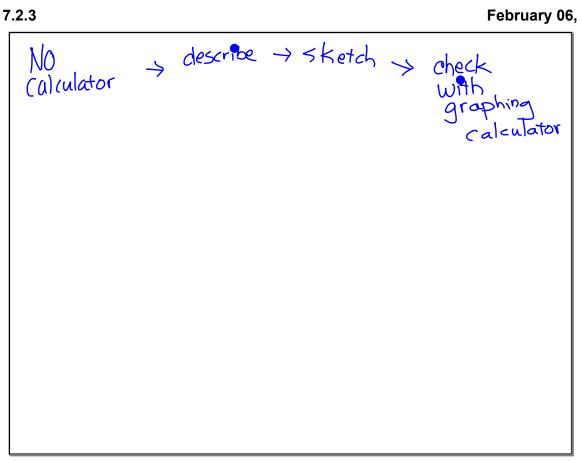


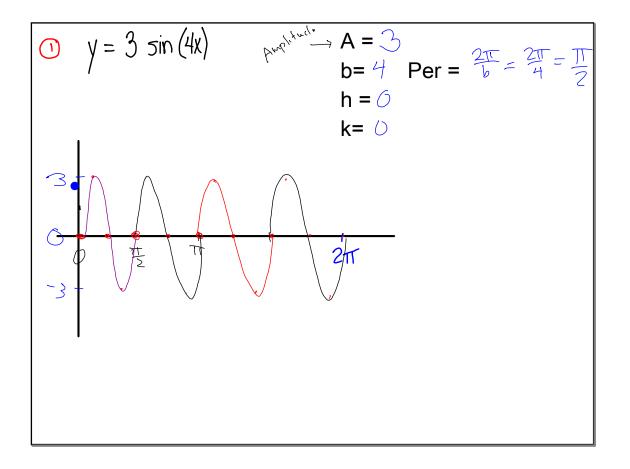
b tells the number of cycles in
$$2\pi$$

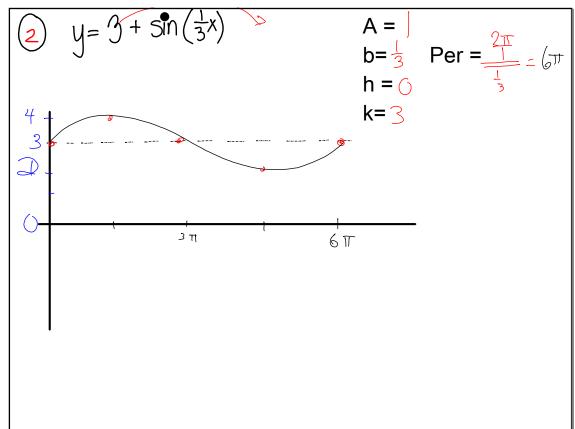
or 360°
Period (hength) = 2π
b = 2π
Period $e^{2\pi}$
b = $\frac{2\pi}{Period}$
 $e^{2\pi}$
b = $\frac{360}{Period}$

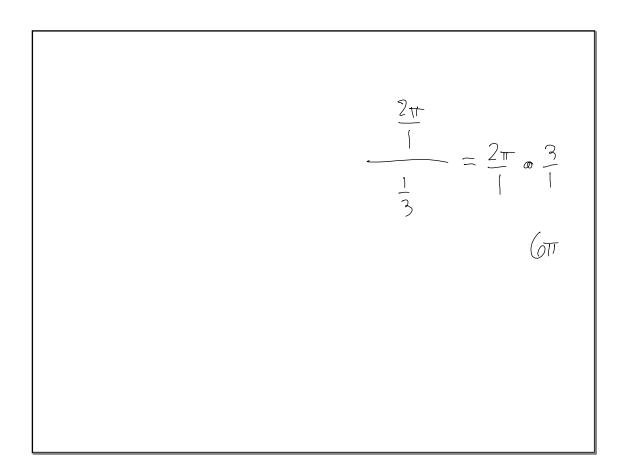


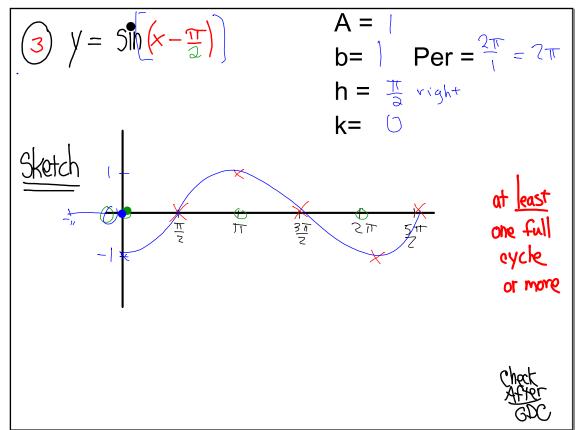


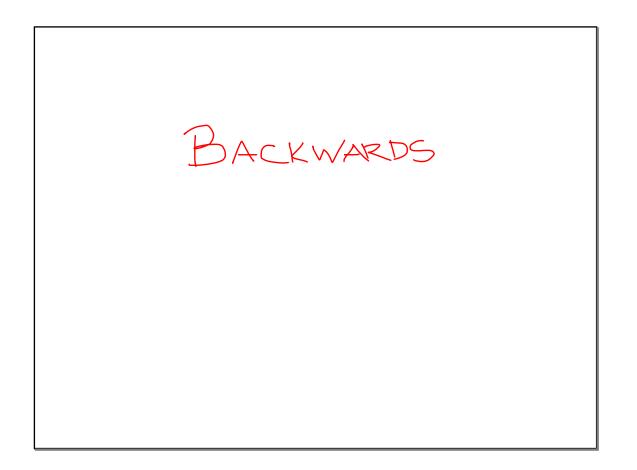


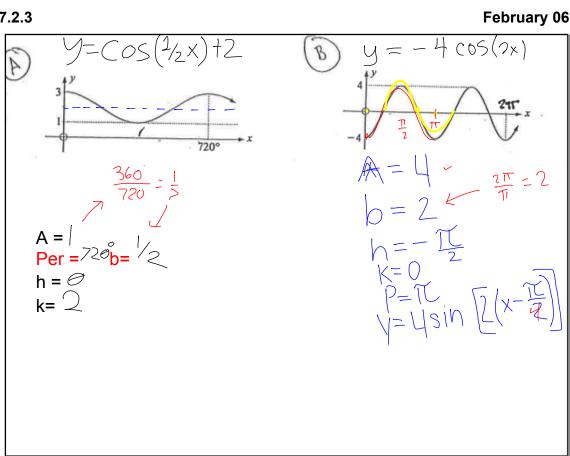


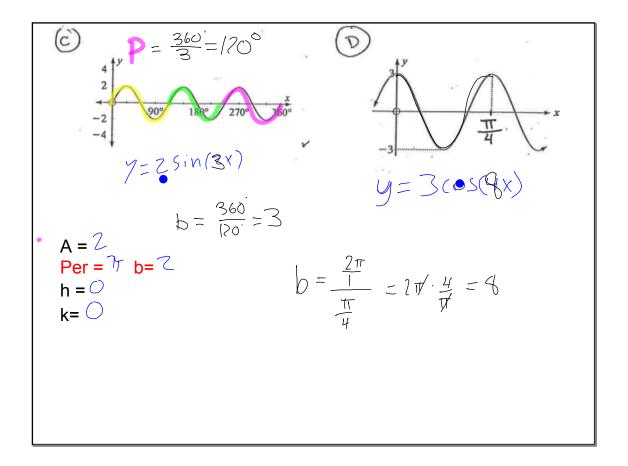


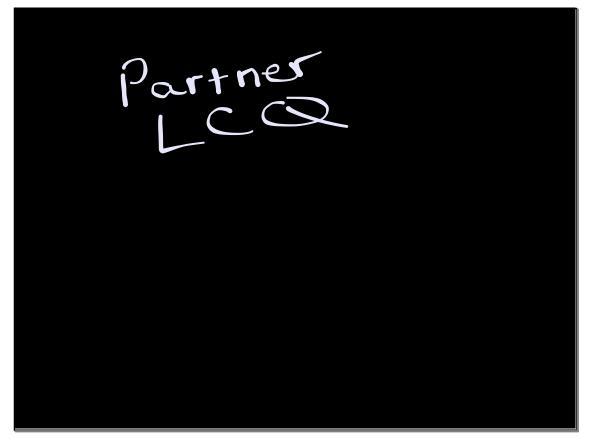






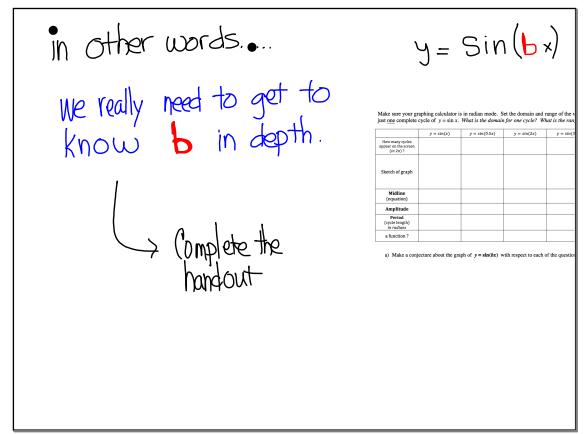


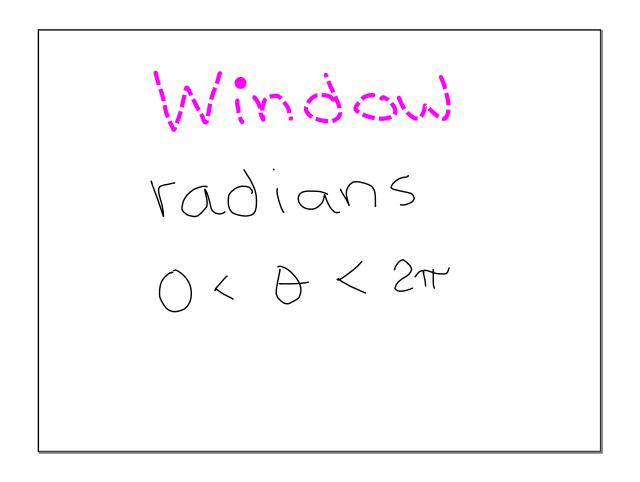


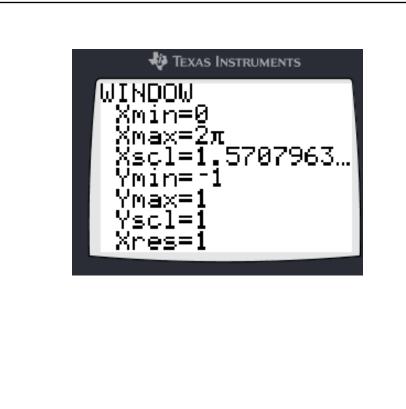


Assignment:

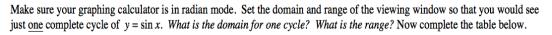
Worksheet: Assignment 7.2.3







just one complete cycle of $y = \sin x$. What is the domain for one cycle? What is the range? Now complete the table below.									
	y = sin(x)	y = sin(0.5x)	y = sin(2x)	y = sin(3x)	y = sin(5x)				
How many cycles appear on the screen $(in \ 0 \le x \le 2\pi)$?									
Sketch of graph	-1 - 01 -	-1 - -1 -	-1 - 0 - 4	-1- -1-	-I -				
Midline (equation)									
Amplitude									
Period (length of 1 cycle) in radians									
a function ?									



		r		1	1	
	y = sin(x)	y = sin(0.5x)	y = sin(2x)	y = sin(3x)	y = sin(5x)	y=51n(bx
How many cycles appear on the screen (in 2π) ?	/	-1d	2	3	6	Ь
Sketch of graph	\bigwedge		AA	444	AM-	
Midline (equation)	Y = O	y =0	Y=0	y=0	Y=0	Y=0
Amplitude	1	1	/	/	/	1
Period (cycle length) in radians	217	4TT	\mathcal{T}	27	211,5	AT P
a function ?	405	yes	yes	yes	Y 25	yes
	~	-	-	\sim	\checkmark	

a) Make a conjecture about the graph of y = sin(bx) with respect to each of the questions above.