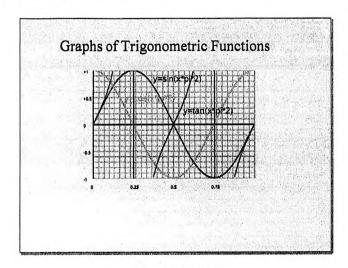
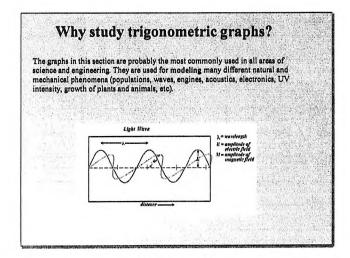
Trig Graphs

Day 1 Sin, Cos.notebook



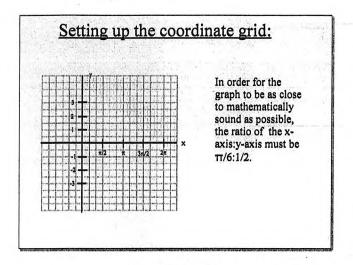
Dec 4-9:49 AM



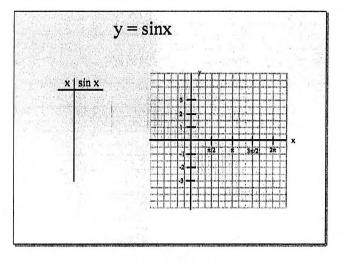
Dec 4-9:49 AM

rotation of th curve.	t has a regular cycle (like the tides, temperatures, e earth, etc) can be modelled using a sine or cosine	
	Harmonic motion sound wave	

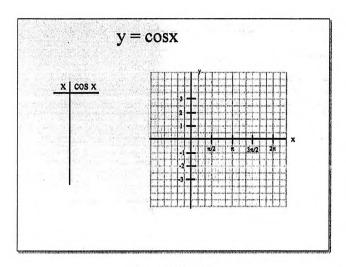
Dec 4-9:49 AM







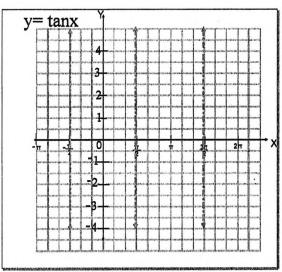
Dec 4-9:49 AM



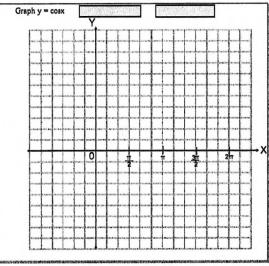


x =					
	0	90	180	270	360
sinx					
cosx					
tanx					

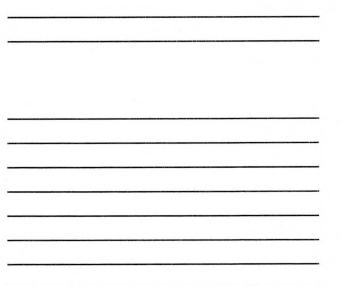
Feb 23-8:43 AM



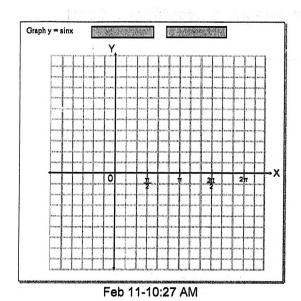
Feb 23-9:06 AM

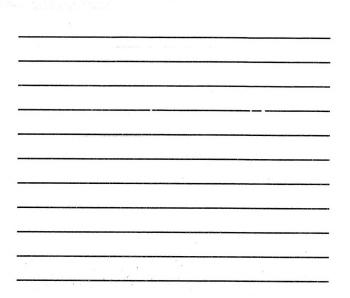


Feb 11-10:24 AM



1 13 - 4



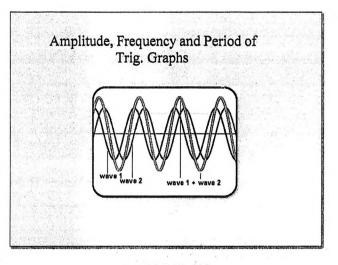


What did you notice from the following graphs?y = cosxy = sinxy = 2cosxy = sin1/2xy = 3cosxy = sin2xCan you come up with a rule?

Feb 11-10:30 AM

2 13-5

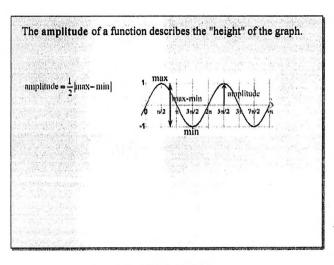
July 07, 2010



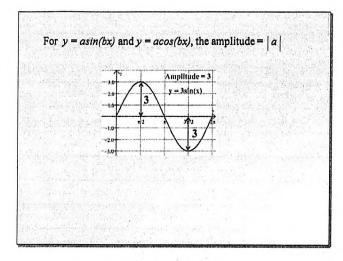
Jan 21-7:59 AM

in other fields of study pattern also occurs in and light waves.	such as scie	ence and eng		ve
	J.	\sim	, ,	19 - 177 19 - 177
lu -			V	

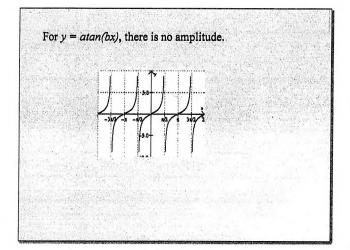
Jan 21-7:59 AM



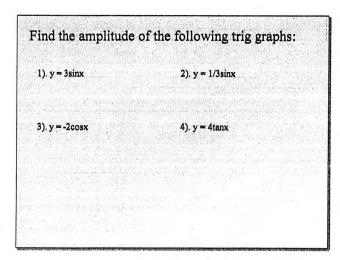
July 07, 2010



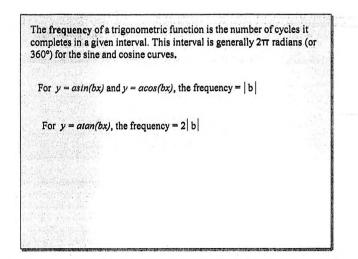
Jan 21-7:59 AM



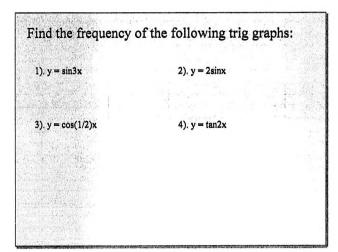
Jan 21-7:59 AM



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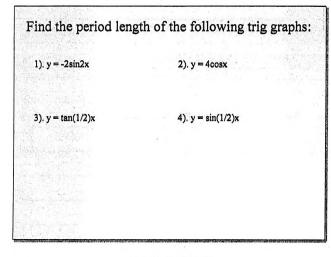
Jan 21-7:59 AM



The period of the trig, function is the complete one complete cycle of the		eded to
	Period = 2π	
10 1/2 1 31/2 2n 51/2 3n 71/2 An	freq.	
This sine curve, y = sin x, the horizontal length of o		
and a second		
a and a second second second		

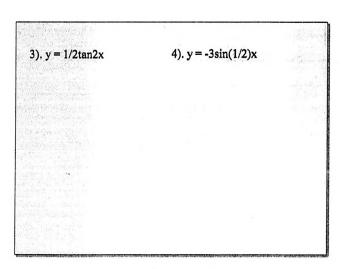


July 07, 2010

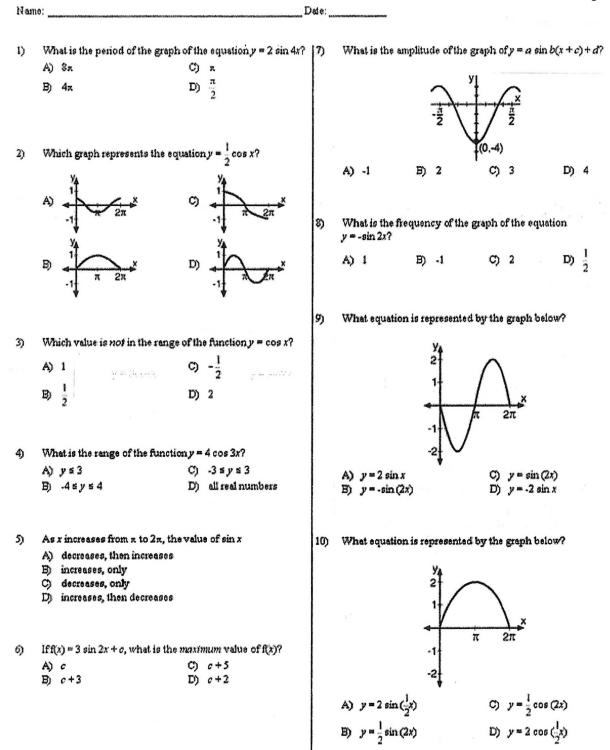




1). $y = 3\sin 2x$	$2). y = 4\cos x$	
	and the second second second	1.10
	and the second product of the second second second	







11) Given $y = -2 \sin x$, name:

- (a) amplitude (b) period in radians

 - (c) frequency

(a) On the same set of axes, sketch the graphs of 14) $y = \frac{1}{2} \sin 2x$ and $y = 2 \cos \frac{1}{2}x$ over the domain -REXER. (b) For what value(s) in the interval $-\pi \le x \le \pi$ does

4116 - 1 - Page 2

 $\frac{1}{2}\sin 2x = 2\cos \frac{1}{2}x?$

12) Given y = 3 cos x, name:

(a) amplitude

(b) period in radians

(c) frequency

15) (a) On the same set of axes, sketch the graphs of $y = 2 \sin x$ and $y = -\cos \left(\frac{1}{2}x\right)$ over the domain $0 \le x \le 2\pi$.

(b) For what value(s) of x in the interval $0 \le x \le 2\pi$ does $2\sin x = -\cos\left(\frac{1}{2}x\right)?$

- 13) (a) On the same set of axes, sketch and label the graphs of $y = 2\cos(\frac{1}{2}x)$ and y = -1 for the values of x in the interval $0 \le x \le 2\pi$.
 - (b) State the number of values of x in the interval $0 \le x \le 2\pi$ that satisfy the equation $2\cos(\frac{1}{2}x) = -1$.