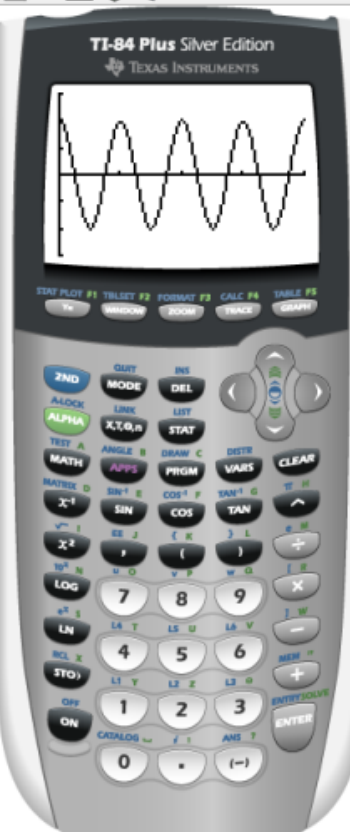


TI-SmartView

File Edit View Tools Scripts Help



TI-84 Plus Silver Edition
TEXAS INSTRUMENTS

WINDOW

Xmin=0
Xmax=6.2831853...
Xsc1=1.5707963...
Ymin=-3
Ymax=3
Ysc1=1
Xres=1

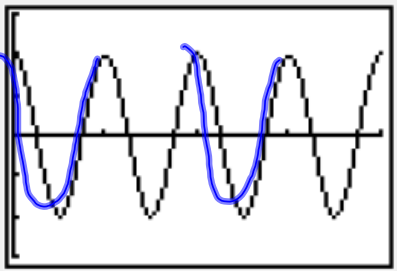
Window

X	Y1
0	2
0.4	-1.307
0.8	-2.91
1.2	1.6877
1.6	-1.945
2.0	0.1616
2.4	-0.84836

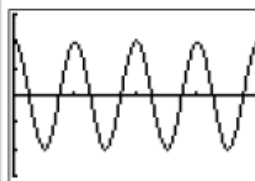
X=0

Table

Key Press History Large Screen



$y = 2 \cos(4\theta)$



Graph

4th Logic Given 2013-14

2nd Logic Given 2013-14

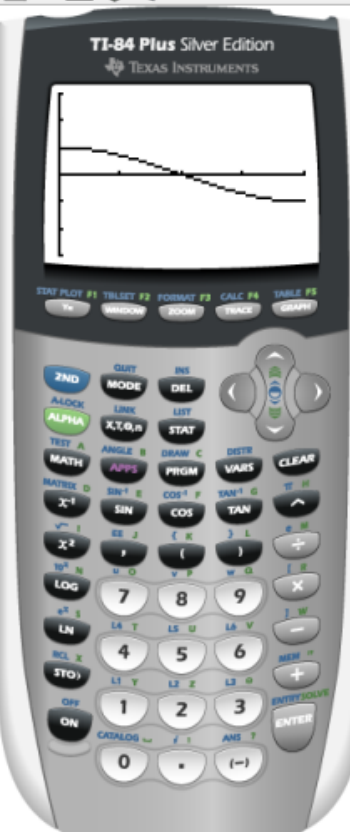
Chapter 9 Test qu...

Parade lineup 2013-14

Zach B

TI-SmartView

File Edit View Tools Scripts Help



TI-84 Plus Silver Edition
TEXAS INSTRUMENTS

WINDOW

Xmin=0
Xmax=6.2831853...
Xscl=1.5707963...
Ymin=-3
Ymax=3
Yscl=1
Xres=1

Window

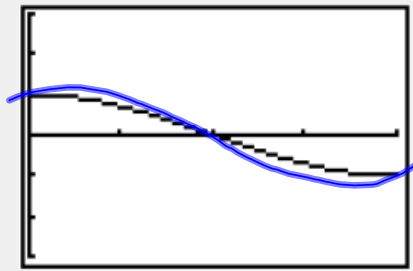
X	Y1
0	1
1	.87758
2	.5403
3	.07074
4	-.4161
5	-.99

X=0

Table

Key Press History

Large Screen



$y = \cos\left(\frac{1}{2}\theta\right)$

Graph

4th Logic
Siven 2013-14

2nd Logic
Siven 2013-14

Chapter 9
Text qu...

Parade lineup
2013-14

Zach B

$$\textcircled{3} \quad y = 8 \sin\left(\frac{3\theta}{b} + 60\right)$$

$$\text{Amplitude} = 8$$

$$\text{Period} = \frac{360}{b} = \frac{360}{3} = 120$$

$$\text{Phase Shift} = \frac{-c}{b} = \frac{-60}{3} = -20$$

$\textcircled{4}$ Give equation that has
an amplitude of 6,
period = 45° and phase shift 32:

$$y = 6 \sin\left(\frac{8\theta}{b} - \frac{256}{c}\right)$$

$$\text{period} = \frac{360}{b}$$

$$\text{p.s} = \frac{-c}{b}$$

$$\frac{45}{1} = \frac{360}{b}$$

$$45b = 360$$

$$b = 8$$

$$\frac{32}{1} = \frac{-c}{8}$$

$$-c = 256$$

$$c = -256$$

④ Give equation that has
 an amplitude of 6,
 period = 720 & phase shift = 2

$$y = 6 \sin\left(\frac{1}{2}\omega - \frac{1}{c}\right)$$

$$\text{period} = \frac{360}{b}$$

$$\text{p.s.} = \frac{-c}{b}$$

$$\frac{720}{1} = \frac{360}{b}$$

$$\frac{2}{1} = \frac{-c}{1/2}$$

$$720b = 360$$

$$-c = 1$$

$$b = 1/2$$

$$c = -1$$

$$\frac{\tan x \cdot \csc x}{\sec x}$$

$$\frac{\frac{\cancel{\sin x}}{\cos x} \cdot \frac{1}{\cancel{\sin x}}}{\frac{1}{\cos x}} = \frac{\frac{1}{\cos x}}{\frac{1}{\cos x}} = 1$$

$$\sin x \cdot \csc x$$

↓

$$\frac{\sin x}{1} \cdot \frac{1}{\sin x} = 1$$

$$\tan x \cdot \csc x \cdot \cos x$$

↓

↓

$$\frac{\cancel{\sin x}}{\cancel{\cos x}} \cdot \frac{1}{\cancel{\sin x}} \cdot \frac{\cancel{\cos x}}{1} = 1$$

$$(1 - \cos x)(1 + \cos x)$$

$$1 - \cos^2 x$$

$$\sin^2 x$$

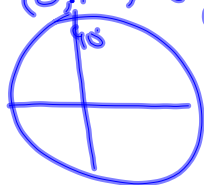
$$\cos^2 x + \sin^2 x = 1$$

$$\sin^2 x = 1 - \cos^2 x$$

$$\cos(90^\circ - \theta)$$

$$= \cos 90^\circ \cdot \cos \theta + \sin 90^\circ \sin \theta$$

$$(0, 1) \rightarrow 0 \cdot \cos \theta + 1 \cdot \sin \theta$$

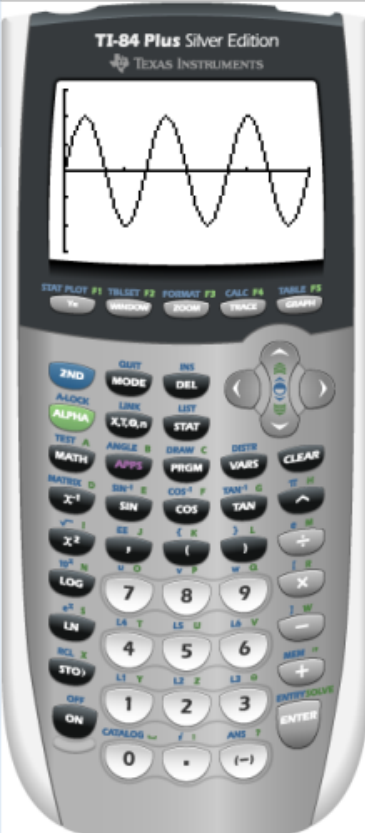


$$0 + \sin \theta$$

$$\sin \theta$$

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TEXAS INSTRUMENTS

WINDOW

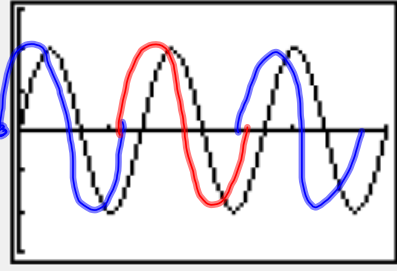
Xmin=0
Xmax=6.2831853...
Xscl=1.5707963...
Ymin=-3
Ymax=3
Yscl=1
Xres=1

Window

X	V1
0	0
MINIMUM	.28224
	-.5588
	.82424
	-1.073
	1.3006
	-1.502

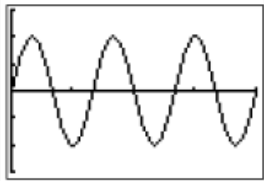
X=0

Table



Key Press History Large Screen

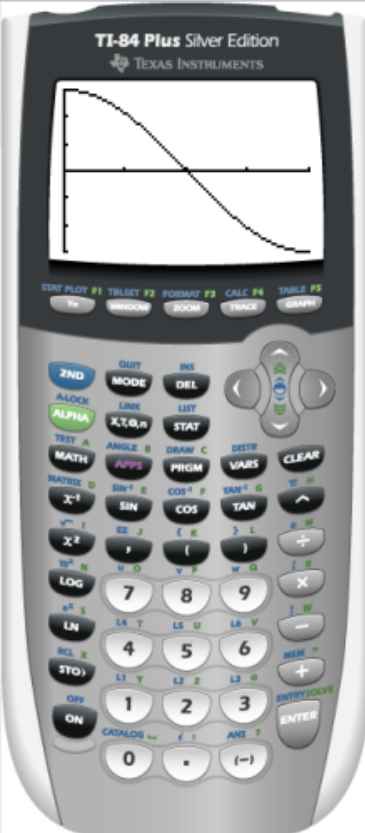
$y = 2 \sin(3x)$



Graph

TI-SmartView

File Edit View Tools Scripts Help



TI-84 Plus Silver Edition
TEXAS INSTRUMENTS

WINDOW

Xmin=0
Xmax=6.2831853...
Xscl=1.5707963...
Ymin=-3
Ymax=3
Yscl=1
Xres=1

Window

X	Y1
0	3
MIN	2.6327
MAX	1.6209
MIN	-2.1221
MAX	-1.248
MIN	-2.403
MAX	-2.97

X=0

Table

Graph

Key Press History

Large Screen

$y = 3 \cos\left(\frac{1}{2}\theta\right)$

$$\textcircled{2} \quad y = 8 \sin\left(\frac{3}{b}\theta + \frac{60}{c}\right)$$

$$\text{Amplitude} = 8$$

$$\text{Period} = \frac{360}{b} = \frac{360}{3} = 120$$

$$\text{Phase Shift} = \frac{-c}{b} = \frac{-60}{3} = -20$$

Give eq. with

$$\text{Amp} = 4$$

$$\text{Period} = 90$$

$$\text{Phase shift} = 8$$

$$y = 4 \sin\left(\frac{4}{b}\theta - \frac{32}{c}\right)$$

$$\text{Period} = \frac{360}{b}$$

$$\text{P.S.} = \frac{-c}{b}$$

$$\frac{90}{1} = \frac{360}{b}$$

$$\frac{8}{1} = \frac{-c}{4}$$

$$90b = 360$$

$$-c = 32$$

$$b = 4$$

$$c = -32$$

$$\tan x \cdot \cos x$$

$$\downarrow$$
$$\frac{\sin x}{\cancel{\cos x}} \cdot \frac{\cancel{\cos x}}{1} = \sin x$$

$$\frac{\cot x \cdot \csc x}{\sin^2 x}$$

$$\frac{\frac{\cos x}{\sin x} \cdot \frac{1}{\sin x}}{\sin^2 x}$$


$$\frac{\frac{\cos x}{\sin^2 x}}{\frac{\sin^2 x}{1}}$$

$$\frac{\cos x}{\sin^2 x} \cdot \frac{1}{\sin^2 x} = \frac{\cos x}{\sin^4 x}$$

$$\frac{\cos^2 x}{1 - \sin x} = \frac{1 - \sin^2 x}{1 - \sin x}$$
$$= \frac{(1 - \sin x)(1 + \sin x)}{1 - \sin x}$$
$$= 1 + \sin x$$

$$\cos(180^\circ - \theta)$$

$$= \cos 180^\circ \cdot \cos \theta + \sin 180^\circ \cdot \sin \theta$$


$$= -1 \cdot \cos \theta + \cancel{0} \cdot \sin \theta$$
$$= -\cos \theta$$

$$\sec^2 x \cdot \cos x \cdot \csc x$$

$$\begin{array}{c} \downarrow \\ \frac{1}{\cos^2 x} \cdot \frac{\cancel{\cos x}}{1} \cdot \frac{1}{\sin x} \end{array}$$

$$\frac{1}{\cos x \cdot \sin x}$$

$$\frac{\tan x \cdot \cos x}{\sin x}$$

$$\frac{\frac{\sin x}{\cancel{\cos x}} \cdot \frac{\cancel{\cos x}}{1}}{\sin x}$$

$$\frac{\sin x}{\sin x} = |$$