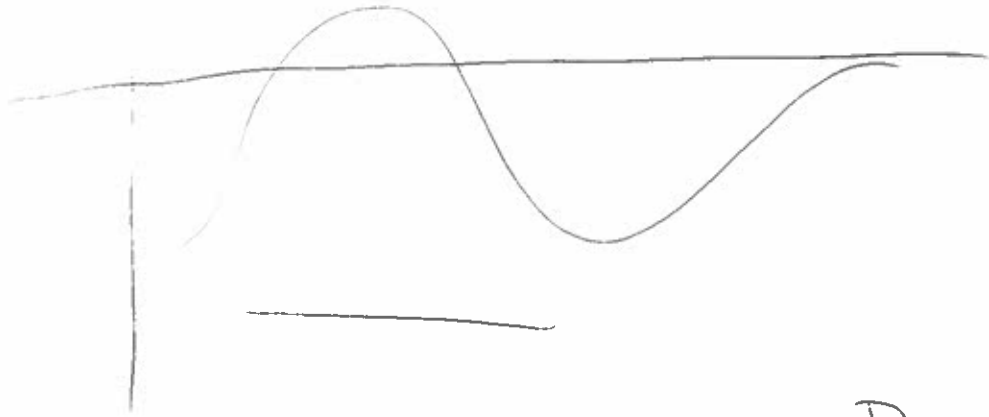


London Eye



$$y = 440 \sin\left(\frac{1}{2}x + \frac{\pi}{2}\right) + 220$$


$$y_2 = 275 \text{ E}$$

$$\frac{440 \sin\left(\frac{1}{2}x + \frac{\pi}{2}\right) + 220}{440} = \frac{275}{440}$$

$$\sin\left(\frac{1}{2}x + \frac{\pi}{2}\right) = \frac{95}{440}$$

$$\frac{1}{2}x + \frac{\pi}{2} = \sin^{-1}\left(\frac{95}{440}\right)$$

$$x = \underbrace{\sin^{-1}\left(\frac{E - D}{A}\right) - C}_B$$

GROUP NAME: <u>12M</u>	Student Names (First and Last)
Logo: 	Speaker/Presenter: <u>Jake prebles</u>
Date: _____	Writer/Prep: <u>Hazel Perai</u>
Topics: <u>inverse sin</u>	QC/Leader: <u>Kevin Velasquez</u>

Instructions: find sin deg.

then find inverse sin deg

x	y
10	1
20	1.5
30	2.0
40	1.5
50	1

$$y = a \sin(bt + c) + d$$

$$a = .5$$

$$b = 0.157$$

$$c = 3.14$$

$$d = 1.5 \cdot 4 = 1.24$$

$$y = 24.097$$

$$x = \sin^{-1} \left( \frac{y - d}{a} \right) - c$$

$$x = \sin^{-1} \left( \frac{24.097 - 1.5}{0.5} \right) - 3.14$$

$$0.157$$

$$= \sin^{-1} \left( \frac{22.597}{0.5} \right) - 3.14$$

$$\sin^{-1} (-8.225)$$

$$x = -23.48$$

<p>GROUP NAME: DA EMO... Logo:</p>	<p>Student Names (First and Last) JES Speaker/Presenter: VINNIE</p>
<p>Date: _____ Topics:</p>	<p>Writer/Prep: JIM KUKOJ QC/Leader: HARRISON</p>

Instructions:

$$X = \sin^{-1} \left( \frac{E-D}{F} \right)$$

a = 932,3125

b = 117

c = 100°

d = 114,794

500

$$\sin^{-1} \left( \frac{500 + 114,794}{932,3125} \right) = 100^\circ$$

.117

2.022

X = 199,2247  
YEAR.

GROUP NAME:	Student Names (First and Last)
Logo:	Speaker/Presenter: <u>Scott S</u>
Date: _____	Writer/Prep: <u>Uel Sinclair</u>
Topics:	QC/Leader: <u>Stan Kaplan</u>

Instructions: Melissa Ervin  
Danyan Zhou

$A=4$   
 $B=7$   
 $C=2$   
 $D=13$   
 $E=8$

$$y = 4 \sin\left(\frac{1}{2}x + \frac{8}{2}\right) + 228$$

$y = 8$   
 $8 = 4 \sin\left(\frac{1}{2}x + \frac{8}{2}\right) + 228$   
 $\frac{8 - 228}{4} = \sin\left(\frac{1}{2}x + \frac{8}{2}\right)$   
 $\frac{-220}{4} = \sin\left(\frac{1}{2}x + \frac{8}{2}\right)$   
 $-55 = \sin\left(\frac{1}{2}x + \frac{8}{2}\right)$

~~$-55 = \sin\left(\frac{1}{2}x + \frac{8}{2}\right)$~~

$\frac{1}{2}x + \frac{8}{2} = \sin^{-1}(-55)$   
 $\frac{1}{2}x = \frac{\sin^{-1}(-55) - \frac{8}{2}}{1/2}$

GROUP NAME:

Student Names (First and Last)

Logo:

Speaker/Presenter: Natalie Costin

Date: 11/13/13

Writer/Prep: LAUREN B. 253

Topics:

QC/Leader: \_\_\_\_\_

Instructions:

$$y = a \cdot \sin(bx + c) + d$$

30

$$y = 2 \cdot \sin(x)$$

1.7

100

$$y = 500$$

$$x = \sin^{-1}\left(\frac{A}{b}\right) - \frac{c}{b}$$

$$x = \sin^{-1}\left(\frac{500-400}{100}\right) - 1.5$$

$$0.314$$

$$x = \sin^{-1}(1) - 1.5$$

$$1.5708$$

GROUP NAME:

Student Names (First and Last)

Logo:

Speaker/Presenter: Sharon Isale

Date: \_\_\_\_\_

Writer/Prep: Avik Khaneja

Topics:

QC/Leader: Onur Turkan

Instructions:

$$a = 200$$

$$b = .31$$

$$c = -1.6$$

$$d = 400$$

$$\frac{\sin^{-1}\left(\frac{8-400}{200}\right) + 1.6}{.31}$$

$$\left(\frac{500-400}{200}\right) + 1.6$$

$$\sin^{-1}\left(\frac{1}{2}\right) + 1.6$$

$$\sin^{-1}\left(\frac{1}{2}\right) + 1.6$$

$$= .52 + 1.6$$

$$= 2.12$$



<p><b>GROUP NAME:</b></p> <p><b>Logo:</b></p>	<p><b>Student Names (First and Last)</b></p> <p><b>Speaker/Presenter:</b> <u>Tahira Siddiqui</u></p>
<p><b>Date:</b> _____</p> <p><b>Topics:</b></p>	<p><b>Writer/Prep:</b> <u>Tree Mumukh</u></p> <p><b>QC/Leader:</b> _____</p>

**Instructions:**

Sin Reg

$$y = a(x-h)^2 + k$$

$a = 14.4$   
 $b = -1.68$   
 $c = -.449$   
 $d = 21.59$

$$\sin\left(\frac{25 - 21.6}{14.4}\right) = -.449$$


---


$$-1.68$$

$$\frac{\sin\left(\frac{E-D}{A}\right) - C}{B}$$

$$= -.409$$