

59 Graph $Y_1 = 2 \sin(X)$ and $Y_2 = \sin(2X)$ in $[-2\pi, 2\pi, \pi/2]$ by $[-4, 4, 1]$. See *Figure 59a*.

Table $Y_1 = 2 \sin(X)$ and $Y_2 = \sin(2X)$ starting at $x = 0$ incrementing by $\frac{\pi}{4}$. See *Figure 59b*.

The two functions are not the same. The function f outputs twice the sine of t , while the function g outputs the sine of twice t .

$[-2\pi, 2\pi, \pi/2]$ by $[-4, 4, 1]$

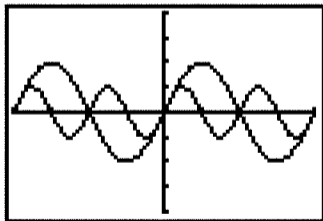


Figure 59a

X	Y1	Y2
0	0	0
.7854	1.4142	1
1.5708	2	0
2.3562	1.4142	-1
3.1416	0	0
3.927	-1.414	1
4.7124	-2	0

Y1 = 2sin(X)

Figure 59b