

41 Graph  $Y_1 = (\sin(X))^2 / \cos(X)$  and  $Y_2 = 1 / \cos(X) - \cos(X)$  in  $[-2\pi, 2\pi, \pi/2]$  by  $[-4, 4, 1]$ .

Table  $Y_1$  and  $Y_2$  together in degree mode starting at  $x = 0$ , incrementing by 50.

Graph  $Y_1$  is shown in *Figure 41a*. Graph  $Y_2$  is shown in *Figure 41b*. The table is shown in *Figure 41c*.

The equation is an identity: 
$$\frac{\sin^2 t}{\cos t} = \frac{1 - \cos^2 t}{\cos t} = \frac{1}{\cos t} - \frac{\cos^2 t}{\cos t} = \sec t - \cos t.$$

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

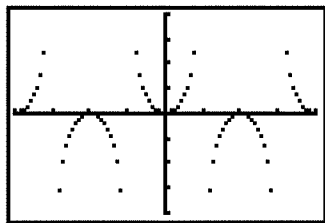


Figure 41a

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

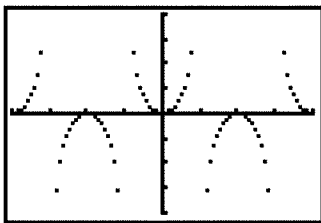


Figure 41b

X	Y1	Y2
0	0	0
50	.91294	.91294
100	-5.5885	-5.5885
150	-.2887	-.2887
200	-.1245	-.1245
250	-2.582	-2.582
300	1.5	1.5

Y1 = (sin(X))^2 / co...

Figure 41c