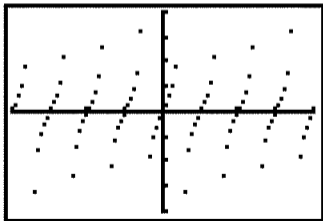


37 If  $f(t) = \tan 2t$ , then  $b = 2$  and  $c = 0$ . Also, period  $= \frac{\pi}{b} = \frac{\pi}{2}$  and phase shift  $= 0$ .

Graph  $Y_1 = \tan(2X)$  in  $[-2\pi, 2\pi, \pi/2]$  by  $[-4, 4, 1]$  using dot mode. See *Figure 37*.

The vertical asymptotes occur at  $x = \pm \frac{\pi}{4}, \pm \frac{3\pi}{4}, \pm \frac{5\pi}{4}, \pm \frac{7\pi}{4}$ .

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



*Figure 37*