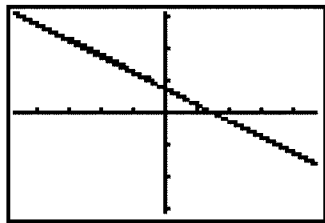


$$\boxed{27} \quad r = \frac{3}{2 \cos \theta + 4 \sin \theta} \Rightarrow 2r \cos \theta + 4r \sin \theta = 3 \Rightarrow 2x + 4y = 3$$

Graph  $r_1 = 3 / (2 \cos(\theta) + 4 \sin(\theta))$  for  $0 \leq \theta \leq \pi$  in  $[-4.7, 4.7, 1]$  by  $[-3.1, 3.1, 1]$ . See *Figure 27a*.

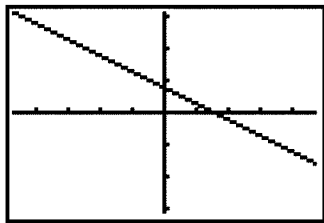
Graph  $Y_1 = -(1/2)X + (3/4)$  in  $[-4.7, 4.7, 1]$  by  $[-3.1, 3.1, 1]$ . See *Figure 27b*.

$[-4.7, 4.7, 1]$  by  $[-3.1, 3.1, 1]$



*Figure 27a*

$[-4.7, 4.7, 1]$  by  $[-3.1, 3.1, 1]$



*Figure 27b*