

21 $9x^2 + 5y^2 = 45 \Rightarrow \frac{x^2}{5} + \frac{y^2}{9} = 1 \Rightarrow a = 3$ and $b = \sqrt{5}$. $a^2 - b^2 = 9 - 5 = 4 = c^2 \Rightarrow c = 2$. The foci are $(0, \pm 2)$, the endpoints of the major axis (vertices) are $(0, \pm 3)$, while the endpoints of the minor axis are $(\pm \sqrt{5}, 0)$. The ellipse is graphed in *Figure 21*.

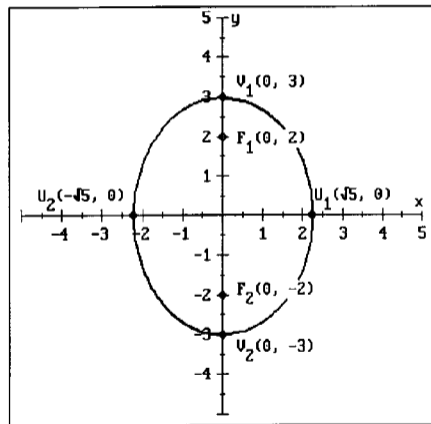


Figure 21