Class Discussion

Unit 9 Topic 4 Parametric Equations

Ex1: Eliminate the parameter in the parametric equations and write its corresponding rectangular equation.

(1) $\begin{cases} x = t^3 \\ y = 3\ln t \end{cases}$

(2) $\begin{cases} x = e^{-t} \\ y = e^{3t} \end{cases}$

Ex2: Write a conic in its parametric form $\dfrac{(x+3)^2}{9} + \dfrac{(y-2)^2}{4} = 1$

Ex3: Graph $\begin{cases} x = 2\cos\theta \\ y = \sin 2\theta \end{cases}$