

1. Eliminate the parameter to find the Cartesian equation.
2. Sketch the graph and indicate with an arrow the direction in which the curve is traced as the parameter increases.

a) 
$$\begin{aligned} x &= \frac{1}{2} \cos \theta \\ y &= 2 \sin \theta \end{aligned} \quad 0 \leq \theta \leq \pi$$

b) 
$$\begin{aligned} x &= \sin t \\ y &= \csc t \end{aligned} \quad 0 < t < \frac{\pi}{2}$$