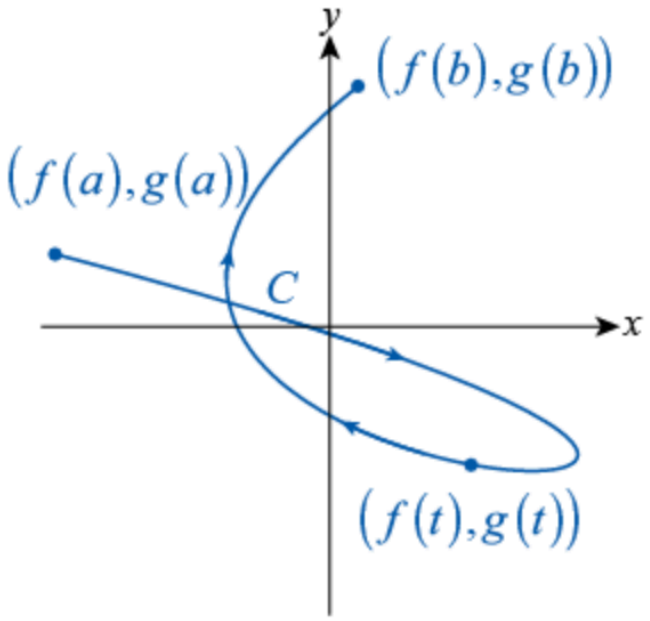
**Parametric Equations:**

$x = f(t)$ , $y = g(t)$ , $a \leq t \leq b$




Example 1.

Sketch the curve defined parametrically by $x = cost$ , $y = 2sint$ , $0 \leq t \leq 2\pi$.

| t | x | y |
|---|---|---|
| 0 | 1 | 0 |
| $\pi/4$ | $\sqrt{2}/2$ | $\sqrt{2}$ |
| $\pi/2$ | 0 | 2 |
| $3\pi/4$ | $-\sqrt{2}/2$ | $\sqrt{2}$ |
| $\pi$ | -1 | 0 |

Desmos Grapher: