



Exercise 8.1: Parabola: $x(t) = \frac{t^2}{4a}$ and $y(t) = t$, for $t \in (-\infty, +\infty)$.

Ellipse: $x(t) = a \cos t$ and $y(t) = b \sin t$, for $t \in [0, 2\pi)$.