

$$\begin{aligned}
X_t &= 10t^2 \\
Y_t &= 20t \\
\text{for } t &\in [0, 6]
\end{aligned}$$

and

$$\begin{aligned}
X_t &= 500 + 500 \cdot \cos(t) \\
Y_t &= 90 \cdot \sin(t) \\
\text{for } t &\in [\pi, \frac{3\pi}{2}]
\end{aligned}$$

$$\begin{aligned}
X_t &= 10t \cdot \cos(t) \\
Y_t &= 20t \cdot \sin(t) \\
\text{for } t &\in [0, 31]
\end{aligned}$$