The Acceleration-Position Graph Variate

This kind of graph requires the manipulation of the Equation $a = \dfrac{dv}{dt}$ as follows

$a = \dfrac{dv}{dx} \cdot \dfrac{dx}{dt}$

$\Rightarrow a = \dfrac{dv}{dx} \cdot v$

$\Rightarrow adx = vdv$ and integration can be performed to further solve it.