

Position, Vel, Acc

$$v(t) = \frac{d}{dt}(\text{pos}) \quad a(t) = \frac{d}{dt}(v(t))$$

$$\text{displacement} = \int_a^b v(t) dt$$

$$T.D.T. = \int_a^b |v(t)| dt$$

$$\text{speed} = |vel|$$