Wednesday, May 8, 2019 9:05 PM

PART 5

Given $\dot{v}(0) > 0$ $\Rightarrow \frac{\dot{v}(0)}{m_0} - g > 0$ $\Rightarrow \dot{v}(0) > m_0 g$

u*(t) only takes 2 values - 0 or max. :: unax>mog &u(o) can't be 0

2) (d) = umax

From previous pout, we know unax is optimal only if $\phi(t) < 0$ $\Rightarrow \phi(0) < 0$