## PS 5 Problem 2 Part 2 Parts a and b

Wednesday, May 8, 2019 3:59 PM

## Part a

## Part b

"final time is arbitrary & H does not explicitly depend on t, H=0 H &

$$\mathcal{H}(t) = 0$$

$$\Rightarrow p_{y}(t)v(y+p_{v}(t)(\frac{u(t)}{m(t)}-g)+p_{m}(t)(-bule)) = 0$$

$$p_{y}(t)=-1 \quad p_{v}(t)=t-t_{f} \quad u(t_{f})=0$$