Wednesday, May 8, 2019 9:05 PM

PART 4

": $\phi(t) \neq 0$ on any non-zero time interval, $u^{\alpha}(t) = \operatorname{arg min} \quad H(py, pv, pm, y, v, m)$ $= \operatorname{arg min} \quad (pyv + pv(\frac{w}{m} - g) + pm(-bu)) \quad pv(t)$ $= \operatorname{arg min} \quad (-|v(t)| + w(t)(\frac{pv(t)}{m(t)} - bpm(t)) - g(t-t_2))$ $= \operatorname{arg min} \quad (-|v(t)| + w(t)(\frac{pv(t)}{m(t)} - bpm(t)) - g(t-t_2))$ $= \operatorname{arg min} \quad (-|v(t)| + w(t)(\frac{pv(t)}{m(t)} - bpm(t)) - g(t-t_2))$

= arguin (u(t)
$$\phi(t)$$
)

05 u(t) Sumax

$$\int_{0}^{\infty} u^{4}(t) = \begin{cases} 0 & \text{if } \phi(t) > 0 \\ v_{map} & \text{if } \phi(t) < 0 \end{cases}$$