D02 (2008: 2.4) (Pathria 2.2) CLUY MARION LLEGIL of + div(pv)=0  $dv(g\overline{v}) = \underbrace{\frac{3N}{2}}_{i=1} \underbrace{\left[\frac{2q_i}{p_i}, (pq_i) + \frac{2}{2p_i}, (pp_i)\right]}_{i=1}$  $= \left\{ \left\{ \frac{\partial q}{\partial q}, q; + \frac{\partial p}{\partial q}, \dot{p}; \right\} + \left\{ \left( \frac{\partial q}{\partial q}; + \frac{\partial p}{\partial p}; \right) \right\} \right\}$  $\frac{df}{dt} = \frac{\partial f}{\partial t} + \left\{ \frac{\partial f}{\partial q_i} \dot{q}_i + \frac{\partial f}{\partial p_i} \dot{p}_i \right\}$ pel monour uceien diga  $\frac{d\rho}{dA} = -\beta \leq \left(\frac{\partial \dot{q}}{\partial \dot{q}} + \frac{\partial \dot{\rho}}{\partial \dot{\rho}}\right)$  $\dot{q} = f_m \rightarrow \frac{\partial \dot{q}}{\partial q} = 0$ השנושת הנולאן שימן התקיומים p=-rp > 3p=-x

dr = rp

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$$\int_{0}^{2} = \int_{0}^{2} (p,q/t^{2}) = \int_{0}^{2} (p,q/t$$

DORNS (A) (P)

$$W(t) = \begin{cases} +\overline{p}(t) & +\overline{q}(t) \\ -\overline{p}(t) & -\overline{q}(t) \end{cases}$$

$$= \begin{cases} -\overline{p}(t) & +\overline{q}(t) \\ +\overline{p}(t) & +\overline{q}(t) \\ -\overline{p}(t) & -\overline{q}(t) \end{cases}$$

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$$J = \left| \frac{\partial (P_0, q_0)}{\partial (P_0, q_0)} \right| = \left| \frac{e^{-\partial t}}{\partial m} \left( 1 - e^{-\partial t} \right) \right| = e^{-\partial t}$$