Hamilton egn: He =-p. q. = Jt. Goldstein 8.7 The two Hami are: (-56) = - 20 (-50+54) H(x,p,t)= P2 + K(x-v,t)2 H(x,p') = (p'-mvo)2 + kx12 - mvo2 eqm(x,p) $p = \frac{\partial H}{\partial x} = k(x - v_0 t)$ 1 x = 3H = P/m => p=m; combined to give -mx = k(x-vot) eqm (x',p'): $-p' = \frac{+H}{+X'} = k \times 1$ $\int \dot{x}' = \frac{\partial H}{\partial p'} = (p' - mV_0)/m = 7 \quad p' = m\dot{x}' + mV_0$ combined to give -mx'= kx' The equation $-m\dot{x}' = kx'$ is solved via $x' = \sin(\omega t)$ $-m\dot{x}' = k(x-\omega t)$ is solved via $x = \sin(\omega t) + v_0 t$, which agrees with the definition x'=x-vot JAGESON Davidson Chew hear pelacetalives have

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