1-D motion with linear drag West 2nd law: X = Fret,x $\ddot{x} = -b\dot{x} = -b\dot{x}$ Write as & (4) = = = 12 x dvx = - = dt Sdux = J-hat $\frac{1}{\ln(v_x)} = \frac{1}{m} = \frac{1}{m} = \frac{1}{m}$ ln (y) - ln (y) = -b t exponential decay Vx = Vxoe Note that at t=0, V = Vxo as at should be.

