

9)
$$\Delta KE + \Delta U = 0$$

$$\frac{1}{2}m(v_{\ell}^2 - v_{K}^2) + \frac{1}{2}k(x_{\ell}^2 - v_{K}^2) = 0$$

$$\frac{1}{2}mv_{\ell}^2 = \frac{1}{2}kx_{L}^2$$

$$V_{\ell} = \sqrt{\frac{kx_{L}^2}{m}} = \text{nead to go} \quad \text{or more in the source of time}$$

$$Aistana + \text{the bold moved} : 2.20m - 0.27m = 1.95m + \text{time}$$

$$\frac{d}{d} = V$$

$$d = Vt$$

$$d + .27m = Vt$$

$$\sqrt{\frac{x_{L}^2k}{m}} - 0.27$$