```
Nevada Miller
#9:
     \xi_1 = \frac{1}{2} K x^2
      E+= = = mv2
                2 v=vx = constant after fall
                Vy;=0
                  ay = -9.8 m/s2
                   \Delta x = 2.2 m
     Bobby: \Delta x = 2.2 m - 27 cpr/x \frac{lm}{lo^2 cpr/} = 1.93 m
                \Delta x = V_x t

1.93 = V_x t

\Delta y = 0 + \frac{1}{2} a_y t^2

\Delta y = 0 - \frac{1}{2} 9.8(t)^2
   W = Fs coso
             0=180 = 1
    W = Fs \cdot d = Fs \cdot 2.2 \, \text{m} W = KE_4 - KE_1^{\circ} = \frac{1}{2} \, \text{mV}_4^2
    Bobby: w = (-kx2)(1.93) = 1 mv/2
                   x = 1.1 \text{ cm} \times \frac{1 \text{ m}}{10^2 \text{ cm}} = 0.011 \text{ m}
                  -0.0112(1.93) K = 1 mvx2
     2.2m
    1.93 m = 1,14
     0.011 x 1.14 (= 0.125 m compressed)
```