

15J K = 305NIM M = 0.260Kg A = 0.280M W = JKIM = 34.250rad | 5of m has zero displacement and positive velocity y(t)=(0.280m) sint(34:3 rad)=)t] by pooled at oscillation is, T= 21 = 21 34.25 radis = 0.183456 tmax = I + nT = 4.59 x1025 + n (0.1835), n=0,12. troin = 3T + nT = (1.38×1015+n(0.1835),n=0,12, 72] a)  $f = \frac{1}{2\pi} \int_{\frac{\pi}{2}}^{\frac{\pi}{2}} = \frac{1}{2\pi} \int_{\frac{\pi}{2}}^{\frac{\pi}{2}} \frac{9.80 \text{ m/s}^2}{0.63 \text{ m}} = 0.6277 \text{ Hz}$ 6) Etap = Ebottom > KEtap + PEtap = KE bottom + PE bottom 0+mg(L-L000) = 2m/2 bottom+0 Vlottom = Jzgl (1-coso) = J2(980m/3)(0.63m)(1-60915°) = 0.6487m19 = 0.65m15 3 Etotal = 1 m/2 = 1 (0.295 kg) (0.6487 m/s2) =[6.2×10-2]

82 a) E1 = E2 > 1 mv,2 + 1 ta,2 = 1 mv2+1 ta2 B] 1 = 1 2 T M =TT (950kg)  $\sqrt{2.375}\times10^{4}NIM$ =[0.635]

## Homework 10 Chapter 15

Homerosk-10 chapter 15[6,48,49,60]
Tay Patel
dassical Physics - 1 (210)
0101 - probessor Van, Huett
(00) 10 (0)
(36) V= VF+/W
$\Delta x = \Delta x = 1$
Ot JU FT TUON
$y = \Delta x = \int f + \Delta x = 8.0m$ $\Delta t = \int u + \Delta x = 8.0m$ $\int u = \int u + \Delta x = 8.0m$ $\int u = \int u + \Delta x = 8.0m$ $\int u = \int u + \Delta x = 8.0m$ $\int u = \int u + \Delta x = 8.0m$ $\int u = \int u + \Delta x = 8.0m$ $\int u = \int u + \Delta x = 8.0m$ $\int u = \int u + \Delta x = 8.0m$ $\int u = \int u + \Delta x = 8.0m$ $\int u = \int u + \Delta x = 8.0m$ $\int u = \int u + \Delta x = 8.0m$ $\int u = \int u + \Delta x = 8.0m$
= 0.199
16 - 2 vand   130 miles   140 miles   160
$Qu8 = 4 \rightarrow bx \cdot node = 1 \times = 4 = 96m/s$ $2f = 2(445Hz)$
2f 2C445Hz)
= [0.11m]
(949) In=nf. two successive overtonos differ by the
fundamental trequency
Of = fn+1-fn = (n+1)f1-nf1 = f1= 320Hz-240Hz = 80Hz
good speed of worker = v = Jer/u
for = or where wib is the length of the
22 vib portion that is actually vibrating
The later on the event the sound of the soun
CONTRACTOR OF THE PERSON OF TH

