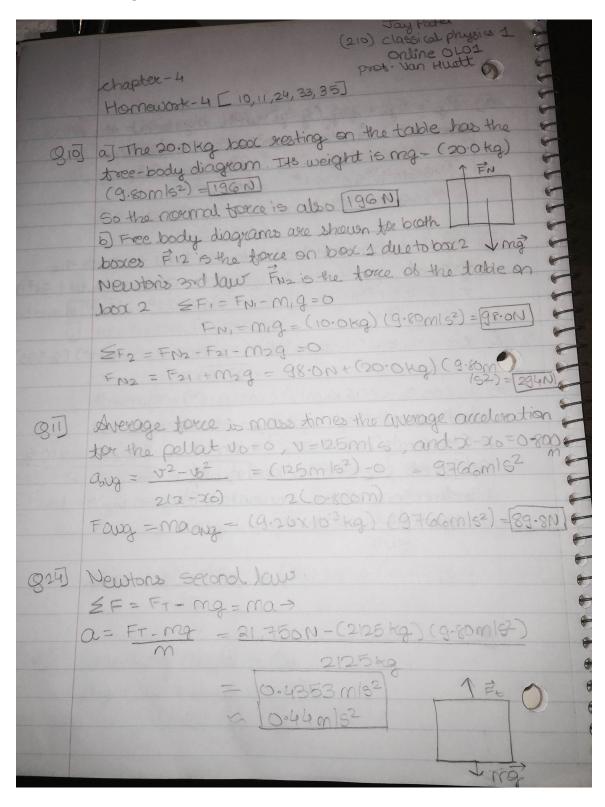
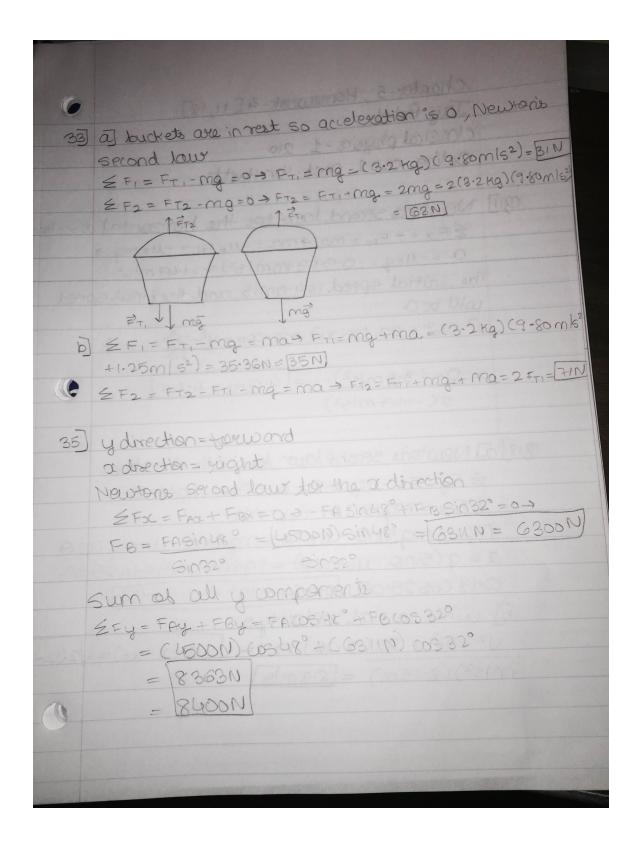
Homework 4 chapter 4





700	50
chapter-5, Homework-4[11,18]	
70. 1010	
Online. OLOI pass	
in the horizontal disec	tion of
gill Newton's second law so	
ZFx=-Fir=1100,000152)=-1.47mls2.	
$ \Xi F_{\chi} = -F_{fr} = ma + ma = ma $ $ \alpha = -\mu \kappa q = -0.15 (g.80 m l s^2) = -1.47 m l s^2. $ The initial speed is 4.0 m ls and the final speed	
The initial speed is a si	
$vill be 0. v^2 - v_0^2 = 2a (x - x_0) \Rightarrow x - x_0 = v^2 - v_0^2$ 2a	
$\sqrt{2} - \sqrt{2^2} = 20 \cdot (3 - 20)^{-20}$	
$= 0 - (3.5 \text{m/s}^2) = [4.17 \text{m} = 4.2 \text{m}]$	
$2(-1.47 \text{ m/s}^2)$	
The second secon	
g18] a] Newton's second law to both directions	
ZFy=FN-mg(089=0-3FN=mg(089	
ZFX=MgSing-Ft=ma	
ma = mg sino - UK. FN = mg sino - UK mg cost	
a = g (sino - 4x coss) = (9.70 m 152) sin 25.00	
0.19 cos 25.00 = 2.454 m/s2 a 2.5m/s2	
5) with initial velocity o	0
$v^2 - v^2 = 2a(x - x_0) \rightarrow v = \sqrt{2a(x - x_0)} = \sqrt{2}$	(2-45)
$m15^2)(8.15m) = [6.3m]$	
	-
	0 6
	6
	6
	9