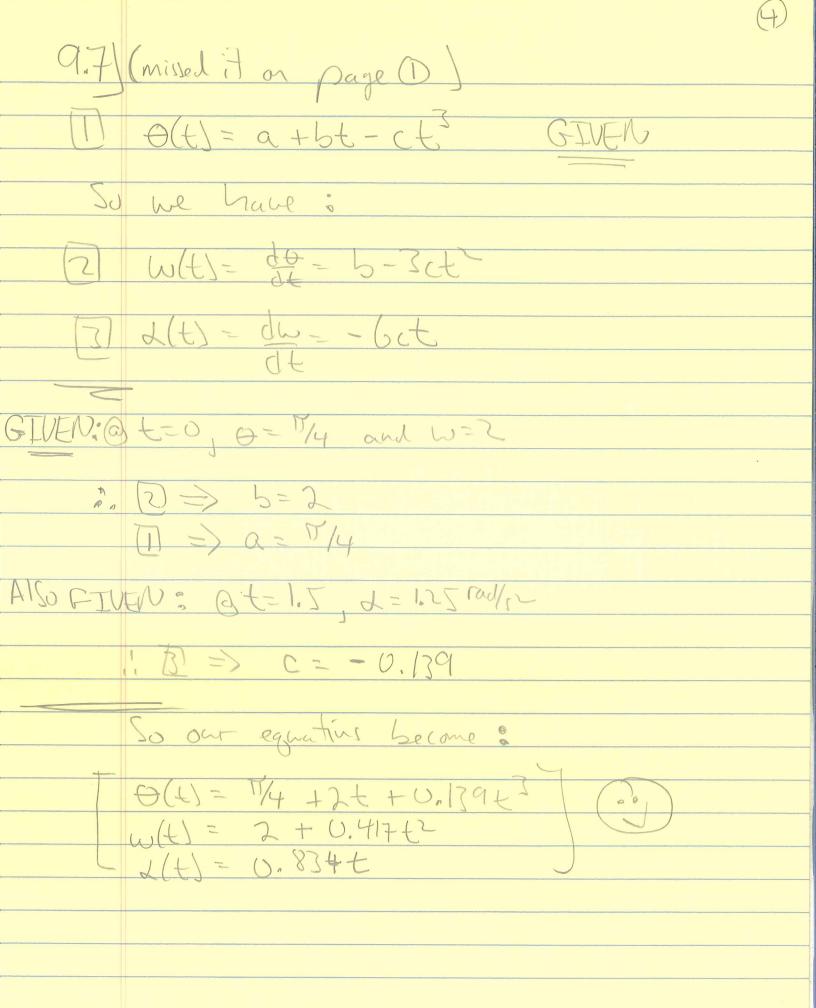
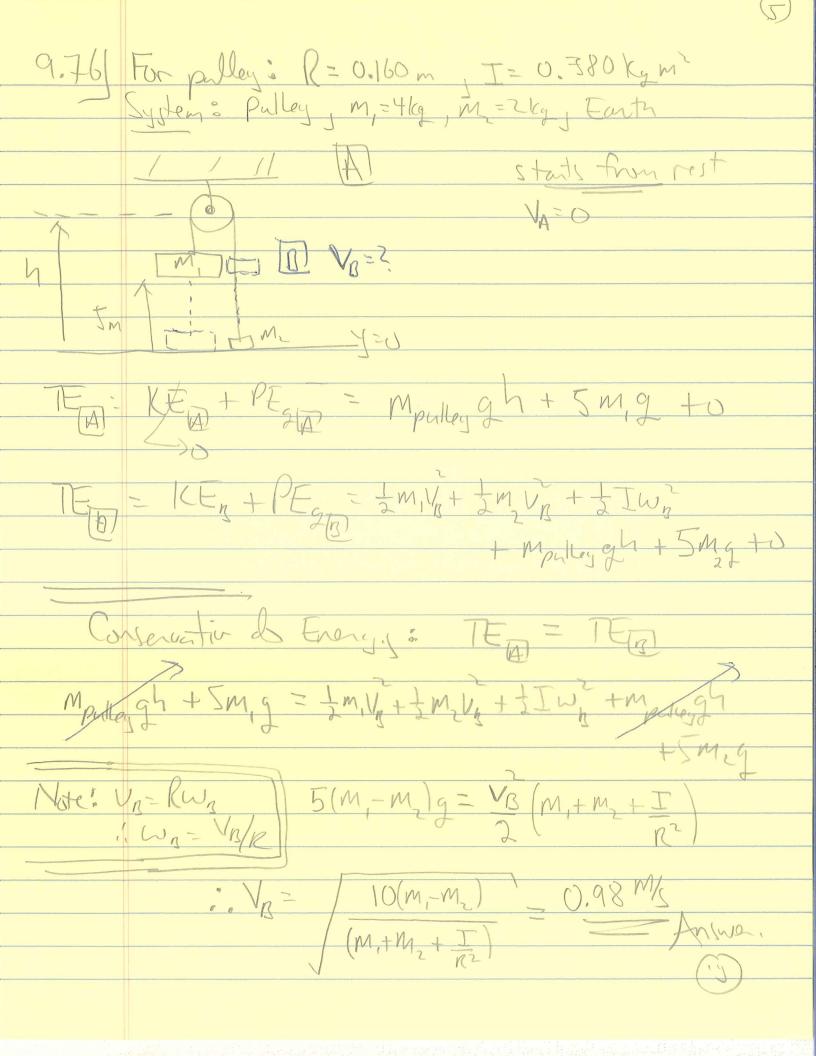
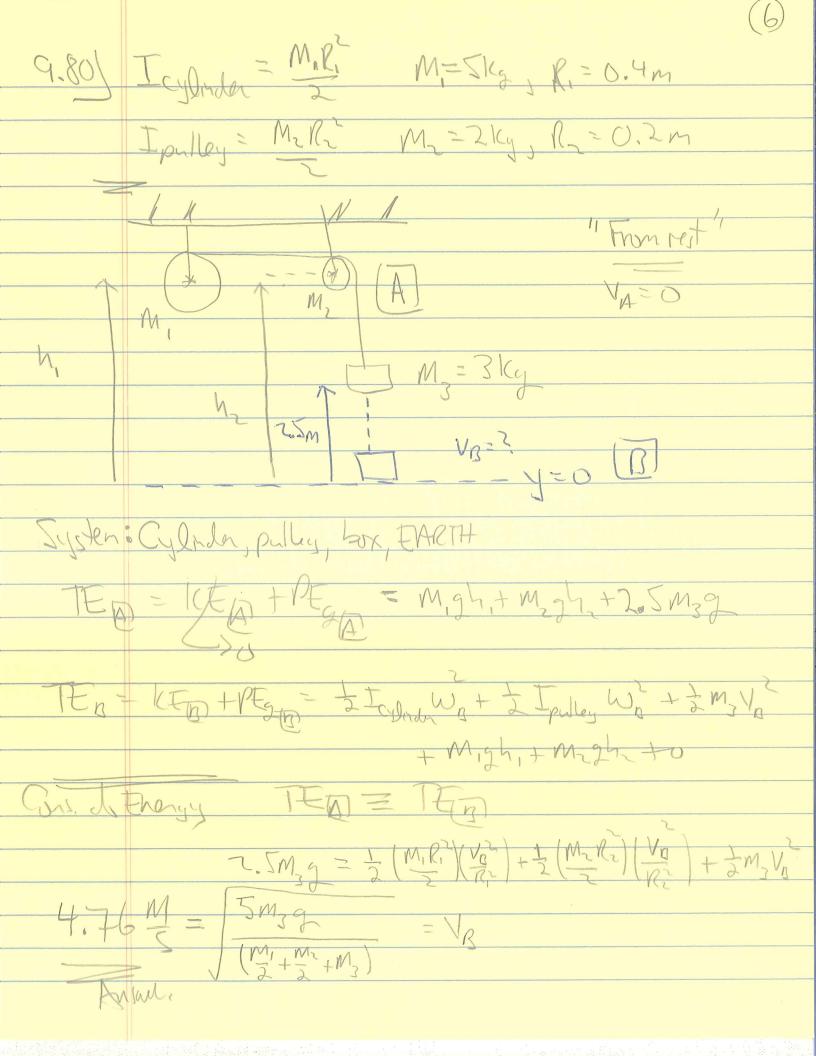


	3
9.131	X = 7.25 rad/g2
	Qt=0,0=0 and wo is not given.
	O(t)= 00+wt+2xt] > (t)= w+1.125t [] (D)
	M(f) = not yf [] [m(f) = mo + 522f [5]
	Ot= ten 0= 30 radius, w=?
	5 - 7 - 3 401 - 5
	(1)=> 30= w ₀ (4) + LN5(4)
	11 Wo = 3 rad/s — Answer.
(
	3 = 3 + 2.25(4) = 12 rad/s
9.32	a (17)
	1 L=0.6 m
TAMIC	9.2 I: ML2 = 0.012 Kg m2 Kg
IAULt	9.2 2= = 0.012 kg m2
5.	Superposition! We now have two rods,
	each when the (=) and
	Mais My Each is rotating
	about an axis q its end, (I=ML)
**	
hich	Mass and Dengto:
	I = (1 / 2 / 2 / 2 / 2 / 2 / 2 / 2 / 2 / 2 /
	FIRE the engineer to see the second of the
A	FIRE the engineer who suggested it?

9.36 "constant acceleration" this corresponds to a choice of coordinate acceleration "Systems (3) Qt=0,0=0/w=0 0(t)=00+wst+32t] = (t)=52t [] 0 w(t)=wo+2t] [w(t)=2t [] a) t= 12 sec, 0 = 8.2 revolutions D=> 8.2= \$ d(N) 11 d = 0.1138 revolutors [2] => W(+=12) = L(12) = 1.366 rey + 2 mrad = 8.58 may At t=12 sec, we are told KE=76 jules It is rotational KE, so : has an angular unt that we must drop to have equation dimensionally 11 = 72 = 0.978 (gm) (8.58)2 = Answer. correct 1 ONLY one we can do that for ic RADIANS!!







9.53 Dick of mais M'and rading R'
Potating about oxis Through its center. Picture is mexample 9.10 on page 290. The difference is that we have a solid asmall piece ob Mass, All ob that piece must be at the same distance 'r' from The opis of rotation dM = 8 dV A definition

A to the definition

Mass density value Here is how we imagine the small piece of volume dr is a small step along The rading (2TTr) * dr is the area of the ray shown in green above, L * (ZHr)*dr is The small prece I volume, dv.

All de its mass is On the same distance

(r) from the oxis de votation!

