Sample trob Bruce Emerson GIVENI Kedd Find expression O(t) Assung 100 gravity, Firs only free => at =0 Estimate I can only do proportional reasoning we no this At) P as up 4 so to should be in the numerator. what matters is the relationship between to 1 R. which suggest Lope is in there somewhere when Lo is big I would expect 0 to change slowly! - no I take that back Wow-I'm not some! gy = Set comparents of Forces in n/t= ma(n,t)

7

Bruce Emerson Sample Prob ENGR212 Soln: F== Fnen => F_= 0 => a== 0 => vo=cnst. (watch amousin between T + t) an = Fr a = pw2en+ de = pw2 = 5 Vozpou p depends on O => p(t)=Lo-RO(t) RO $\frac{V_o}{P} = \frac{V_o}{L_o - RO(t)} = \omega(o) = \frac{do}{dt}$ 00 = (L-RO) de $t = \frac{L_0 - R_0^2}{2V_0} = t = \frac{L_0 - R_0^2}{2V_0} = \frac{L_0 - R_0^2}{2V_0} = t = \frac{L_0 - R_0^2}{2V_0} = \frac{L_0 - R_0^2}{2V_0} = t = \frac{L_0 - R_0^2}{2V_0} =$ Quadratu Q2-216 Lo 0 + 240 t =0 (4 = 26 + 4 (40)2 - 4 & Not

	Bruce Emerson Sample Prob. ELGRAR 3/3
	Solvi Cart $\Theta(\epsilon) = \frac{L_0}{R} + \left[\left(\frac{L_0}{R} \right)^2 - \frac{2v_0 t}{R} \right]$
	Q(t=0)=0 = Lot (R)? =) (-1 sign is correct.
	(At) = 10 - 1(12) - 2 vot whow!
	Discossim! I like it in general, the to feels good. I am bothered by the to dependence I can't quite got that to make sense in my
	I can't quite get that to make sense in my
180	
JARE =	