b) Find amplitude of sun vector by summing each neces described Sim => 3 terms. Make plu of f as of - Sun vecro: pagnitule Xphase. = References (exist + e (we + 26)))

= References + e (we + 26)))

= Ee e (we + e) (exist + 1 + e (we)) =(1+2005d) | SIND = e'B-e'B Eotot = (Eo (eiw+ eiw+ +8)+ei(w+25)(e-iw++ e-i(w++5)+e-i(w++20)) = JE0(1+e18+e128)(1+e-18+e-128) - toli+e-io+ eizs+eis+1+e-ig+eizs+eis+1 = E0 3+20-16+2016+e-126+e126 = to 13+21e-16+e18) fe-126+e126 = to [3+2(e-16+e18)] 1 to 30 4 costs) + 2ws(28) > 8-6m 0-20

8.03 per1 C) In pover in a harmonic signed or square it complicate it the signal. Make skeen it relative power P(d) as of varies from 0 to 27 Par Eo2 (3+ 4 cos(8) +2 cos(26) prace plus of P(S) P(0) = (3+4+2)=9 ball of redus of it mass M many want under influence of searny rolls back of tarth Problem & Show for small deplacements OTt) is hackson tind trequency it orcillaries 1=(R-1)-(R-1) ruso = R(1-0050) 16) mg/f-r(1-corb) Small cape approximents = myrxx+(1- 2)) (menunze.) ~ mkill pretic ergor tan 8 2 8 KE= 2m/m2+ 1 Zaw = 1 mvon + 1 Ion Von = 2 Vem (M+ Len) Jen (greatern) = Ven = MP2 KE = = (M+ 3M)(R-1) 0= TOM(R-1)6. fren=(R-r)6 dE=0 ensy corporal E=V(0)+ kE(6)=mg(R-1) 2+ TOM(R-1)262 =-400019X=== (R-000 mg(R-1)00+ 70M(R-1)200=0 -80 = 3 # (R-1) 0 @+45/R-1) 10=0 6= -95 71R-F) A

lited frequery about the minimum tyle expansion and min, m= 1 mass of diatomic when we is spring constant to 2882 CW = F = 128 = 28 F molecule

