春一周己 1. x(t) = A Sin cwet 4) V(t) = x(t) = AW COSCWET (P) $act) = \dot{x}(ct) = -Aw^2 Sin cwetty)$ W = 80 Trad/s amax = Aw = 5g = 5x 9.8 = A = 7.76 x104 xmax = A = 7.76 x10-4 m V max = AW = 0.195 m/s 2. X = 0.5 sinwt + 0.3 coswt $v = \dot{x} = 0.5 w \cos wt - 0.3 w \sin wt$ $\alpha = \ddot{x} = -0.5W^2 \text{sinwt} - 0.3W^2 \text{coswt}$ $=-W^2$ CO-S sinwt + 03 (05 wt) $= - W^{\lambda} x$ 二 此振动为简谐振动 W = 10 Th rad/s = f = 5 HZ T = 0.25 $A = \sqrt{0.5^2 + 0.3^2} = \frac{134}{19}$ 9 = arctan 03 = 0.54 rad/s 2 x = 1 Sin c watt 054) cm) V = x = 54 TL COS (10 Tt + 0.54) (m/s) a= = -1053472 sin (10 Tet + 0.54) (m/5")





