13.4 ③ ア(t)= <- まt³, t> 、 t> 」、 t> 」. プ(も)= デ(も)= < -もい> - velocity $\hat{\alpha}(t) = \hat{V}(t) = \hat{\gamma}''(t) = \langle -1, 0 \rangle$ -acceluation Speed = 11/1/2/2 / (- E)2 +(1)2 = / E2+1) find all at t=2. で(か)= (-2,2) 「で(2) = (-2,1) 、ス(1)= (-1,0) v(2) = V5 8 of (t) = 2 - 5 t (t) 8 ?(t)= tî +2cost3 + Sintê at t = 0. V(t)= 1-2 sint 1 + cost & $\vec{\alpha}(t)^2 - \lambda - \cos t \hat{y} - \sin t \hat{t}$ U(t)= \((1)^2 + 4 \sin^2 t + cus^2 t = \(\lambda 2 + 3 \sin^2 t \) (10=25) = (1+F V(0) = {2 え(め) - - 2分







