

2) F(t)= tetitetotk (F(t)=(stetat) set dt, sat) $\frac{du(t)=dt, \ v(t)=sdv(t)=e^{t}+C}{su(t)dv(t)=tet-se^{t}dt=te^{t}-e^{t}+C}$ $f(t)=(te^{t}-e^{t}), \ e^{t}), \ t(0)=(1,e-1,1)$ SVHdt= (0, Scostetde) Scorte dt= costet-[l-sintet)-s(-cost)etd{} = 2 costet dt = e^t cost tet sint Scorte dt = e^t (cost + sint) Scorte dt = e^t (cost + sint) (t) dt = (0, e (cost + sint) = e'(eost)e sint)