

(2) dy-et-y=0=>dy-et=0=>dy-et=edy=edt => (e'dy = (et dt => e' = ct + (=> ln(et)= ln(et)+ ln(c) = taln(1) = (0) = 0 = 0 = 0 + ln(1) t+0=> [y=t $f(t) = 2 \frac{dy}{dt} = f(t) - \cos(t) y$ t) = K (os(t), K can be any number dy - K (os(t) - (os(t)) y => dy - cos(t) (K-y) => dy = (05(t) dt => -ln k-y) [y=e"-e"+K] 4 y= k+e => dy = -p(t) Jy => / Tydy = |-p(t)dt 6) dy + p(t) (y = 0 => 2/y =- \p(t)dt +(=>/y==\frac{1}{2}=>/==\frac{1}{2}==