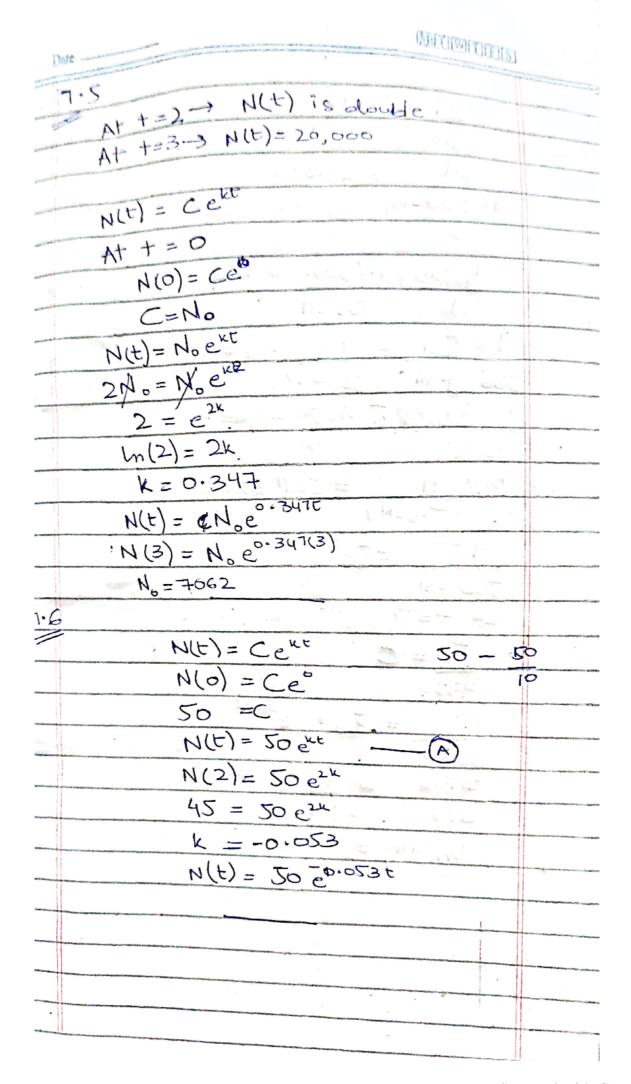
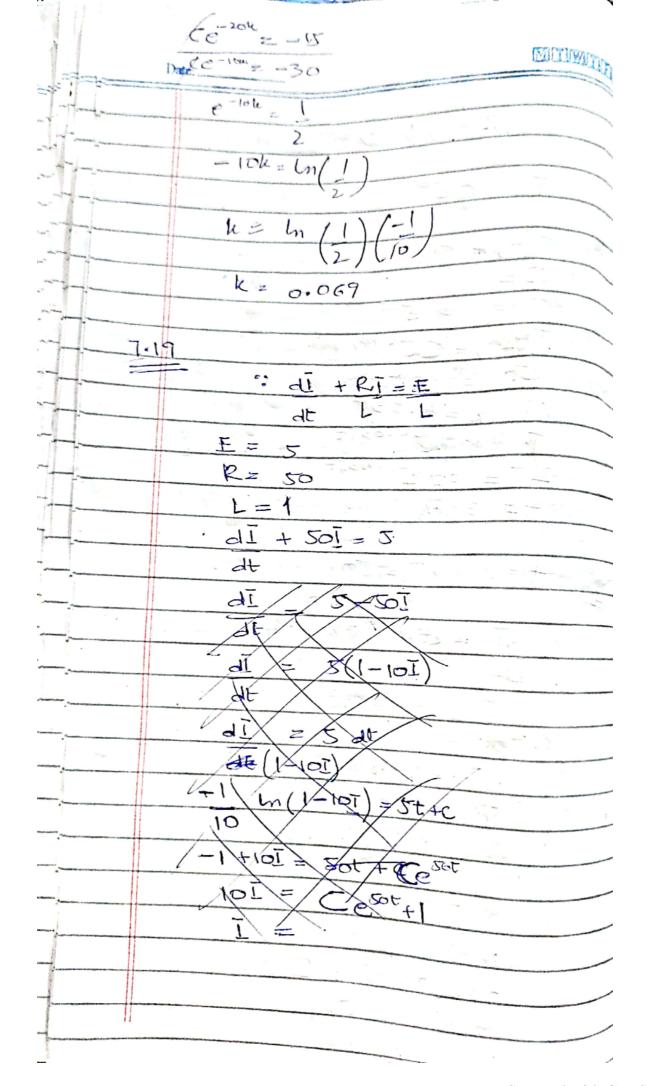
| | | MILLIAMORE |
|--|--|--|
| Date: | | |
| | | |
| | Growth Model | |
| | The state of the s | |
| | Electrical Circuit? | |
| | $\rightarrow dl + Rl = 1$ | |
| | dt L | |
| | Temperature : | |
| | → dI + kI = | k/m |
| | 0 alt | |
| | Growth & Decay: | |
| |) 11 - 101 | |
| | $\rightarrow 9H - KH$ | -0 |
| | at | |
| 1.1 | | |
| | N(0) = 20000 | N(3)= 20000 xe |
| | K = 0.05 | ·N(3 = 23286-69) |
| | | |
| | 0= MX - ME 80 | 2N = 20kxe 0405 + |
| Grand and the control of the control | dt | 40000 = e 005t |
| | dN = KN | 20000 |
| | at | 2 = e0.05t |
| | (dN = kdt | 0.6931 = 0-051 |
| | J N J | t = 13.86 |
| | m(H) = kt + C | |
| | $N(t) = Ee^{0.05t}$ | |
| | N(0) = C e 0.05(0) | |
| | N(t) = 20000 x e " | 56 |
| | N(c) = 70000 x 6 | The state of the s |

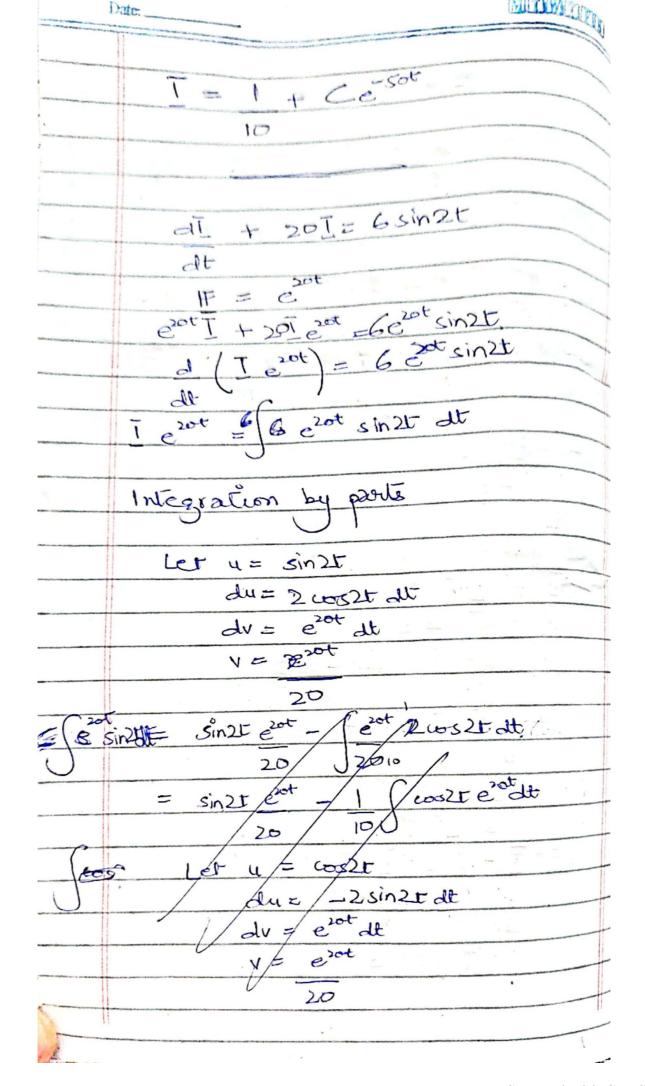
| | MICHWICHERS |
|--|--|
| DAG. | 3000 |
| 2 | The state of the s |
| 1.2 N(0)= 5000 | The second secon |
| M7) = = [15 > 4" | |
| k = 0.085 | The same of the sa |
| $k = 0.085 [1^{4} \rightarrow 4^{4}]$ $k = 0.0092 [5^{4} \rightarrow 7^{4}]$ | |
| The state of the s | A 40 competitive parameter in page production to the programment of the page o |
| -KN = 0 | |
| O N | |
| dt 0.082 t | The second secon |
| M(f) = C 60.082 f | 1 |
| N(0) = Ce | |
| 5000 = C | |
| N(t) = 2000 60.083 | st |
| N(4) = 7024.74 | 4 |
| N(4) = 7 | The state of the s |
| | |
| 0.0092 | t |
| N(t)= (e0.0092 | 92(4) |
| -N(4) = Ce°00 | 0012.(4) |
| 7024.74 = C es. | 0012219 |
| C = 4852.23 | |
| N(t) = 4852.23 | 60.01724 |
| N(7)= 9271.44 | |
| 7.3 K = ? | |
| + = 6 | 2/2 = No ex(6) 2 = ex |
| 4 2No | 2 = e ^k |
| dN - kN = 0 | k = 0.1155 |
| dt | |
| $N(t) = Ce^{+kt}$ | |
| N(0) = Ce | |
| $C=N_{\circ}$ | |
| $N(t) = N_0 e^{kt}$ | |
| 17(1) = 170 6 | |
| | , |

| Date: | | MITHMITORE |
|---|---------------------------------|--|
| | | |
| 7.4 | N(t) = Ceuc | |
| | | and the same of th |
| CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR | 1000 = Cek | |
| | 3000 = Cext4) | · · · · · · · · · · · · · · · · · · · |
| | | |
| | 3000 - July | |
| | 1000 = Legh | |
| | 3 = -3k | |
| | $\ln(3) = -3k.$ | |
| | $\frac{1}{3} = e^{3k}$ | |
| | | |
| | Ce | |
| | 3 = e 3k | |
| | ln(3)=3k | |
| | k = 1 ln (3) | |
| 1 | 3 | |
| | H(E)=1000 @ 00366 | - |
| | N(H)=C | |
| | 1000 "20377 | |
| 6 | N(0) = 3 N(t) = 694 = 0.3666 | |
| (d | N(0) = 5. | |
| | | |
| | | |
| | | |
| | | |



| O-101 | STORTING STORES |
|--|---|
| Della vice | |
| 7.8 | : dT +kT = 9 KTm |
| And the state of t | |
| Control of the Contro | T = Ce |
| and the second second | |
| | |
| and a second | T(0) = Ce° |
| and the second s | E=100 |
| The state of the s | T = 100 e K |
| | T(20) = Ge (20) |
| | 50 = 100 e. |
| | 0.25 |
| | T = 100 @ -0.035t |
| | T = 100 e |
| | 25 = 100 e |
| | t= 39.6 |
| | |
| 7.9 | t=0 →T=50 |
| - | |
| | dT + KF = 100 k |
| | dt |
| | di = 100x-kt |
| | dt |
| | (at = Wtoo - F)at |
| | T= k (100t - |
| | $d\bar{l} = -k(100 - \bar{l})$ |
| | dt |
| | di = -vat |
| | 100-1 |
| | |
| | $-\ln(100-T) = G-kT + C$ $-100+T = Ce^{-kT} + 100$ |
| | T = Cent |
| - 11 | 1 = Ce +100 |





| erotsinzt = 15e sinzt |
|---|
| le single |
| U GEV |
| |
| |
| = UV - Sydu |
| |
| $\int e^{20t} \sin 2t dt = \sin 2t e^{20t} - \int e^{20t} 2 \cos 2t dt$ 20 $\int 26_{10}$ |
| 20 126,0 |
| $\int_{e}^{2ct} \sin 2t dt = e^{2ct} \sin 2t - 1 \int_{e}^{2ct} \cos 2t dt$ |
| 20 10 |
| Let $y = \cos 2t$ $dv = e^{2\sigma t}$ |
| $du = -2\sin 2t \qquad v = e^{20t/20}$ |
| Jerotastat = erocast x (erot (+xsinz) alt |
| 20 20 10 |
| erotostal = erot coszt. + 1 (erot sinzt at |
| 20 10 |
| |
| |
| |

Date: e sin2td = e sin2t - pe cos2+ -1 [ezotsin2tat = ezotsin2t - ezotcos2t 20 ersin2tdt = " sin2tal = 5e25 sin2t - e20 cos2t = 30 e 2 sin 2 t 101