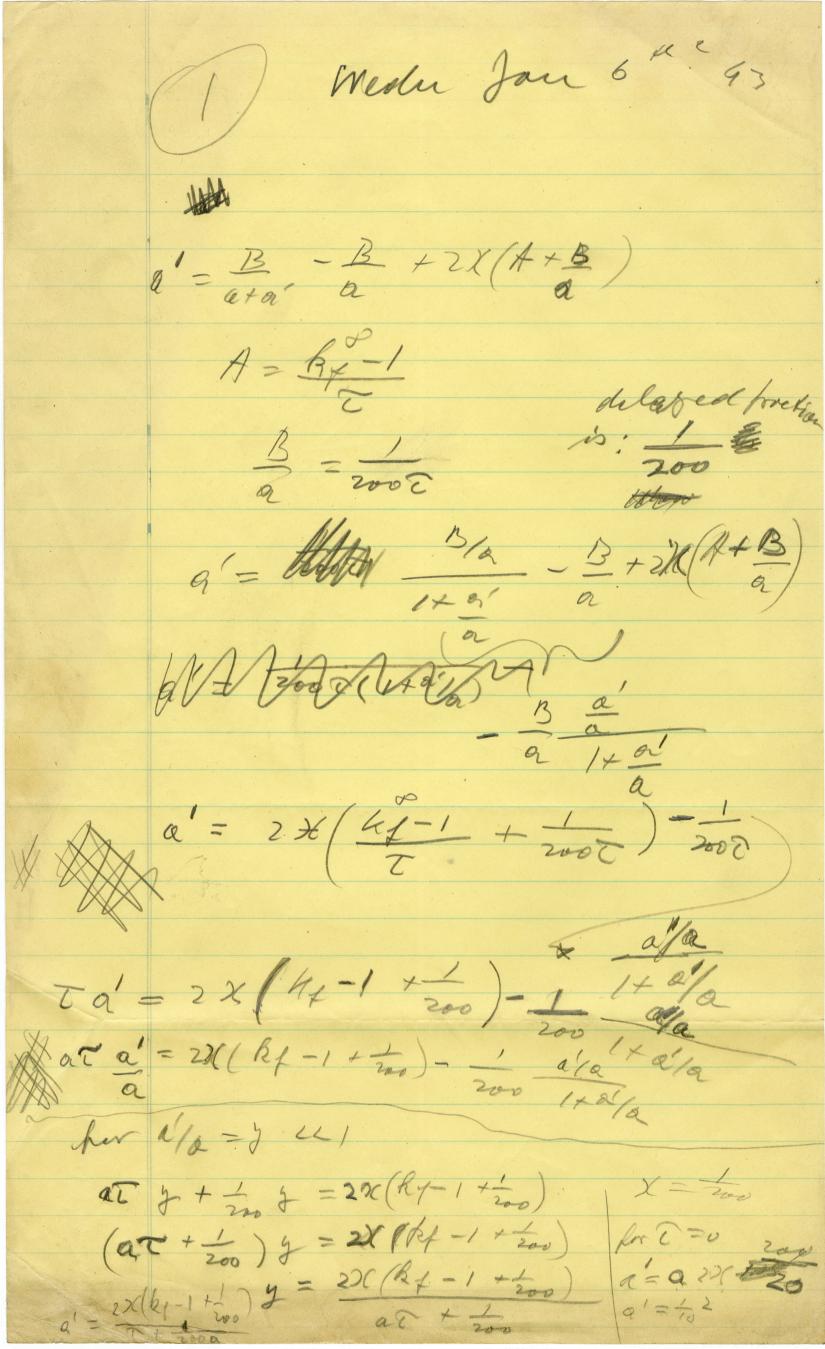
t-t=x · fea't = -a(t-t)at kt kt T=t-x--ses a't-a'x-axdx a = - (A + B)(1-13 + A + B) 1.5 ×10-3 A = kp-1 A-DX2 = kpe-1 15 hfe-1 + 200 //+ 91/0  $\frac{B}{a} = \frac{1}{200T} \qquad A = k \frac{1}{C}$ ato= Re-1+ (1/40-1) at = lefe - 1 + 200 (1 - a) a < a $a't+\frac{1}{500}a'=k_e-1$   $a'=\frac{k_e-1}{t+\frac{1}{200a}}$  average life of a a(++ a') = 2000  $a' = \begin{bmatrix} a \\ \overline{2} \overline{n} \overline{0} \overline{t} \end{bmatrix}$ C=10-6  $a' = \sqrt{\frac{100}{10}} \times 200 = \sqrt{500} = 22$ 

St+ -7 St+128 = 532 SeSet - 75e2+1255t = 83/25+ Se + 652 = 25 = + C S = Aext A"+2A'a + Aa2 - 7A'-7Aa + 12A = A32e2t Ax 2-7x +12=0 d= 3,4 A"-7A' = A 3/2 2+ 3+ 2+ 2-1 S= s+ VIZ Stt - 7st + 12(s+VIZ) = (s+VIZ)2 - St = F(S) St = FSt = FF F F7F + 125 = 832 S = S (Se) Se = S'Set Se = +  $\frac{x}{5}$ ,  $-7x = 5^{3/2} - 125$   $x^2 - 75'x = 5^{3/2} - 125)5'$ x2 = = 35-65+6 x = (53/2 - 125)5+C' = x - 75'x +C' C=78'x=7(x3)'-73 ##'-7# = 5 3/2 125 S = 5 = 25 d === -7E = 13-1212 \$ \$G(28G+ 3Gs) - 732G = 33-1232 67 + 8BB - 7B = 8-12 (G-3)(G-4) + & GG = s (3,-3) (3-3)(8-4) + = 0 3 (B-4) 7 (B-3) (B-3/6-4) (B-9 (B-3) (3/7 + 4/2 (B-3 + B-4) B + = 0 3 lu (3-3)+8/7 la (B+4) +2 his - An C (G-3)3/7 (G-4) 4/7 = c+2 (G-3)3(B-4) = c7,14  $G(\overline{\pi}_{G-3}) + \overline{\pi}_{G-4}) + \frac{2}{5} = G = G G_3 + \frac{2}{5} = \frac{2}{5} = \frac{2C^2s^2}{5}$ C= 12 3 - 2 = 25 3 - 26 - 62 = - C+ 453 C= 12- 23

(5) real hist reacher on moth 5+62 = 210 De 20, 210 6 10 et lovavol = 3 = 1000 cm 50 V=117 ×10 × 2×5 10 cm/000 = 103 × 103 × 105 = 4.3 10 sec folorable! of 106 Valt 41 R 2 4 3 V - AR 3 4 TR WAY A PROPERTY OF THE PRO de = D-ART PA = RO R3A-



(2) Wedn Jan 6 let us put artistoryte antistrants a' = 2 200 20 (hy - 1+ 20) 200 the months in relationship without 2 and 2 - (at n 200 - 1) 2 = 1 n 2 200 14 n 2 200 (1- 02 m 200) = -m 2 = 27((k<sub>1</sub>-1+ zoo)

thuch for instantonous suf

A-D1<sup>2</sup> = keff-1 | k<sub>1</sub>-1-2D1<sup>2</sup>=log

A=k<sub>1</sub>

T

k<sub>2</sub>-1-2D1<sup>2</sup>=0 0.16 

a1 = 202 2000 - 100 he alluving n= 1000 ac= 1+ (to-1 1- n = 900 1 + n 220 y at n2200 = 2 - 300 1 + n2200 (arm 200-1) / = mx 1+ n 2200 a[ m200 = 1+(2200+1) m 1+n2200

.

(1) at  $\frac{1+(2200+1)n}{1+n(2200)n200}$ Mat = m (200) 2 2 · 2000 - 1000 7002 at = 3 = 1/2×104 T = 2/03  $n = 10^4$   $1 = \frac{10^4}{210^5} = \frac{10^5}{210^5}$  all right if els of Water 10 times nonnol scullering of H 60

who of H" 4 15 whision

3 m/n hpoth for el. to 

Cout. Jun 7th -43  $at = \frac{2}{2}(h_{1}-1+\frac{1}{200}) - \frac{1}{200}\frac{a/a}{1+a/a}$ /a' = /see /a = 10 see /R = 10 T = 2 96 - 1 - 10 a 20 20 1+10  $a = \frac{1}{10}$ 2 = X - 1 0 = 10 × 2 × 10 - 10 10 17 10 C = 26 - 100 drech a/a /4 /2 X=(0+ 200)10 T = 1/12 2 % X=(100 + 2)

Shopen

$$aa'+a' = -\frac{1}{2}(a+a') + B$$

$$aa'+a' = -\frac{1}{2}(a+b)^{2} + D\lambda^{2}a + B = 0$$

$$a' = -\frac{1}{2}(a+b)^{2} + \frac{1}{2}\sqrt{a-D\lambda^{2}} + 4B$$

$$a' = -\frac{1}{2}(a+b)^{2} + \frac{1}{2}\sqrt{a-D\lambda^{2}} + 4B$$

$$a' = -\frac{1}{2}(a+b)^{2} + A + \frac{1}{2}\sqrt{a+b}^{2} + B$$

$$a' = -\frac{1}{2}(a+b)^{2} + A + \frac{1}{2}\sqrt{a+b}^{2} + B$$

$$a'' + aa' = +\frac{1}{2}(a+a') + B$$

$$a'' + a'(a-k) - |ka| + B = 0$$

$$a'' + a'(a-k) - |ka| + B = 0$$

$$a' = -\frac{1}{2}(a+b)^{2} + \frac{1}{2}\sqrt{a+b}^{2} +$$

$$\alpha = -\frac{a + D\lambda^2 - H}{2} + \frac{1}{2} \sqrt{(a - D\lambda^2 + H)^2 + 4B^2}$$

$$\alpha' = -\frac{a + D\lambda^2 - H}{2} + \frac{1}{(a + D\lambda^2 + H)} + \frac{2B}{a - D\lambda^2 + H}$$

$$\frac{\partial \alpha'}{\partial \lambda} = -D\lambda + \frac{-(a - D\lambda^2 + H)D\lambda}{\sqrt{(a - D\lambda^2 + H)^2 + 4B}}$$

$$\frac{\partial \alpha'}{\partial \lambda} = 0 \quad \alpha' = \frac{1}{2} \int_{a + D\lambda^2 - H} da + \frac{1}{2} \int_{a - D\lambda^2 + H} da + \frac{1}{2} \int_{a - D\lambda^2 - H} da + \frac{1}{2}$$

QC = 60 C + Ap + B Sopt) No g=eat sinhx. N=== a'{e mitx}=-823}+A{}+ Hat Alas . + Be at l'ac ca'E =  $\int_{0}^{t} (a+a)\pi$   $\int_{0}^{t} (a+a)\pi$  $a' = -2\lambda^2 + A + \frac{B}{a+a'}$ a'(a+a') = B100 A (30c) a'(a'+a) = B =a (ata) 1000

 $A = -\frac{B}{28}$ a'= 1 + B + B a+a' a"(a+a)=aB-1(1+a)B=B/1-1(a+a)) dN = B fe NE) ale (axa)t a' = B a + a'a'(a+a') =B (a') 2 + a a' = B -a+Va+4#B