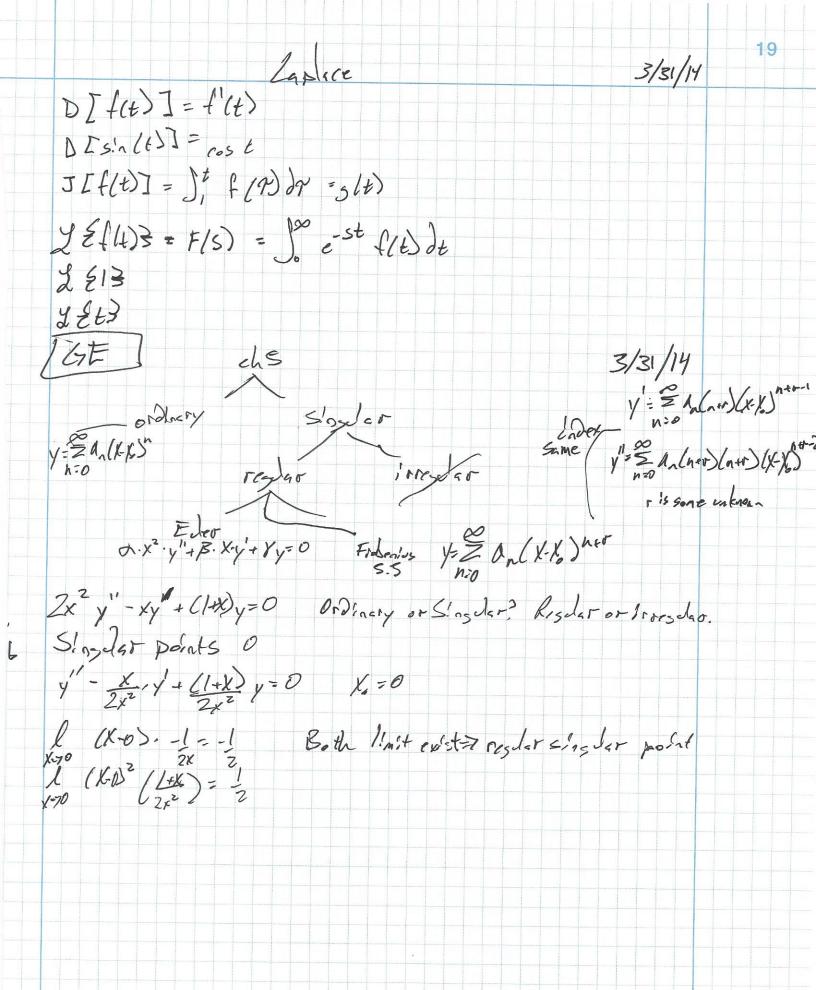
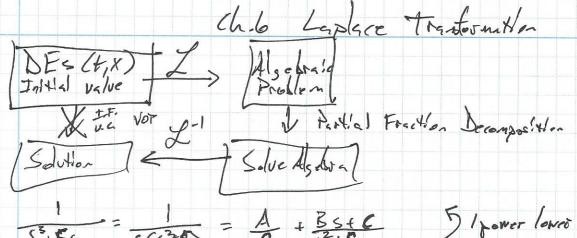


Y = 9. x + 9, x + 1 + 92 x + 2...

= a x2/1+- = x+ /7x+





We 535 = 1 = A + BS+C 5/power lower lower Factor

 $\frac{1}{(s^{2}+5)s} = \frac{A}{5} + \frac{B \cdot s + c}{s^{2}+5} \times s + \frac{B \cdot s + c}{s^{2}+5} \times s + \frac{B \cdot s + c}{s} \times s + \frac$

1 = As2+5A+Bs2+cs

0.5x1=(A+B)82+C.s+ SA

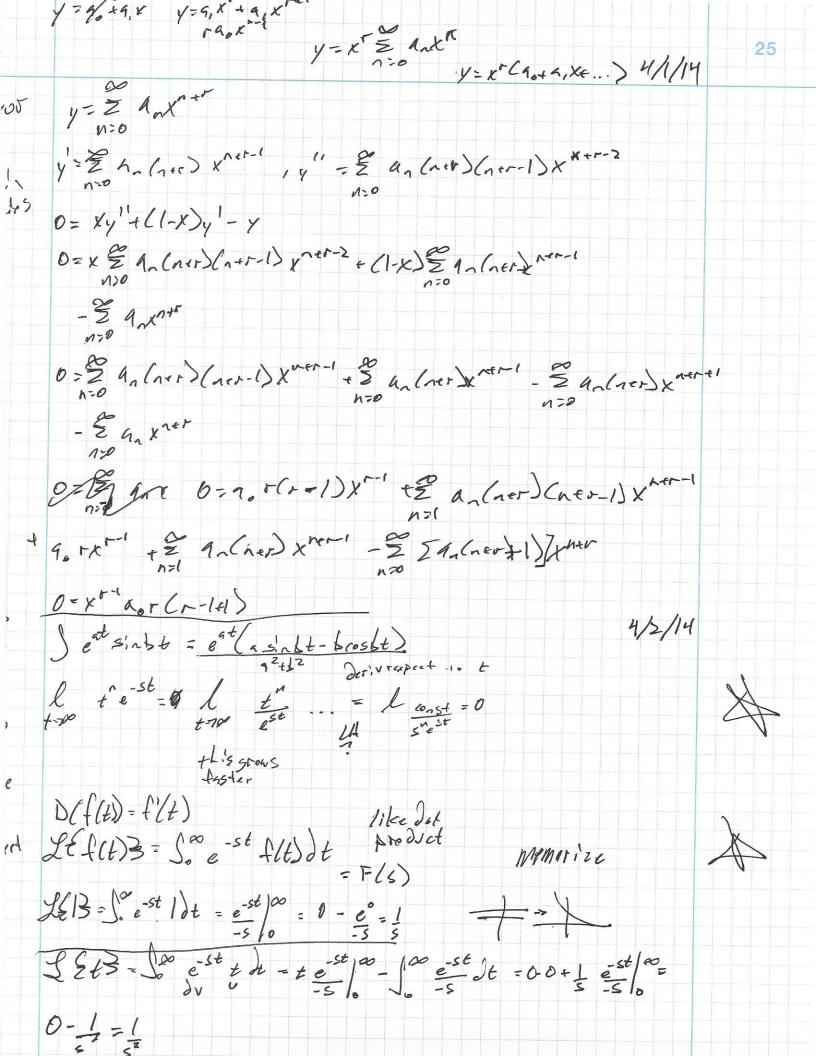
A-13 = 0 C=0 SA=1 A=1/s B=-1/s

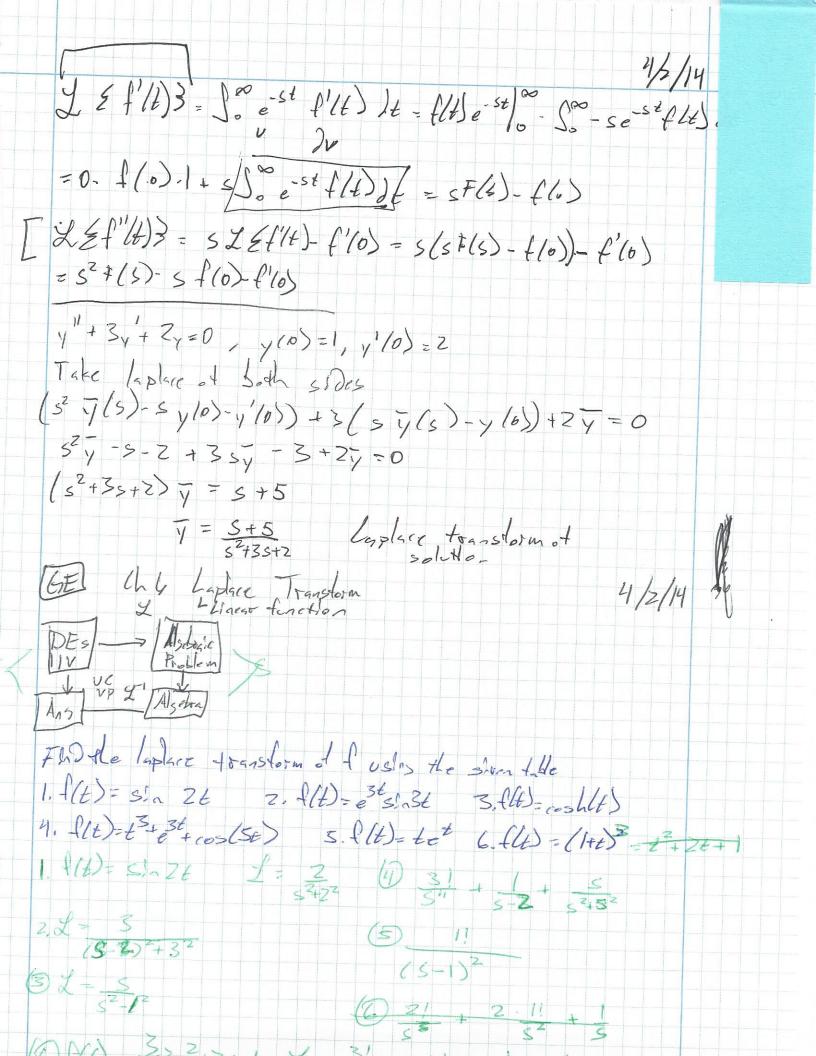
 $\frac{1}{3^{2}(3^{2}+5)} + \frac{1}{5} + \frac{1}{5} + \frac{1}{5} + \frac{1}{5} = \frac{1}{5} + \frac{1}{5} = \frac{1}{5} + \frac{1}{5} = \frac$

0 <u>6</u> =

(3) 2x-3 =

(4) 5-3x -50





Formula: 28 673 = n! £ 243 = 1 LEHZ = 1, LeH-1 = 1 LE13 = 1 = 1 = 1 = 1 1273 = 2 1513 = 2 (1) = 2 5 (5) = 2 Show that LEth 3 = N! n=1 (Fase of Endution) Induction Apportlesis - Assume happens for n: LEE's = N. Prove it holds for nel: LEtner = (not) LEtnz 28th-13 = (n+1) + n! = (n+1)! >0054"+ Q00 4+ P00 4=0 Sligelar pt: Xo S.T. 0 = & CXO) (x2 + 10) 2 y"+ (x-10) 2 y 1 + (x-10) 2 y = 0
0= (x-10) 2 y"+ (x-10) 2 (x-1 "> - CX-XOSQCX) CX-XOS RXS = Q Nord (5th 1= XI do +9, xx...], x=0

4= (K-Ko) 7 90 = 9, CK-Ko St ...]

6.3/6.4

unit step: Valtd=ult-a) = Hexiside (+-a) - (v,(+)-u,(+)) s:-(+) f (1) = & 1 = 2 = 4 = 1 = 3 = 4 F(1) = (0, -0,) 1 + (0, -03) +2 + (03) 2 y= ftt-c) same same I & velt) flt-e) = 5. o-st ve flt-es 21 = So e st pl4-c 2+ So e st 1 + (4-c) 2+ 7- 6-c =7 2= 0x = 1 = state) f(2) d2 = 50 = 57 - 36 f(2) d2 = &-sc 5 = -s= + (q) 2 = e-sc F(S) LEUCHALLE-C) = e-SCECS 2ndsht HM LEect(4)3 = 7(5-c)