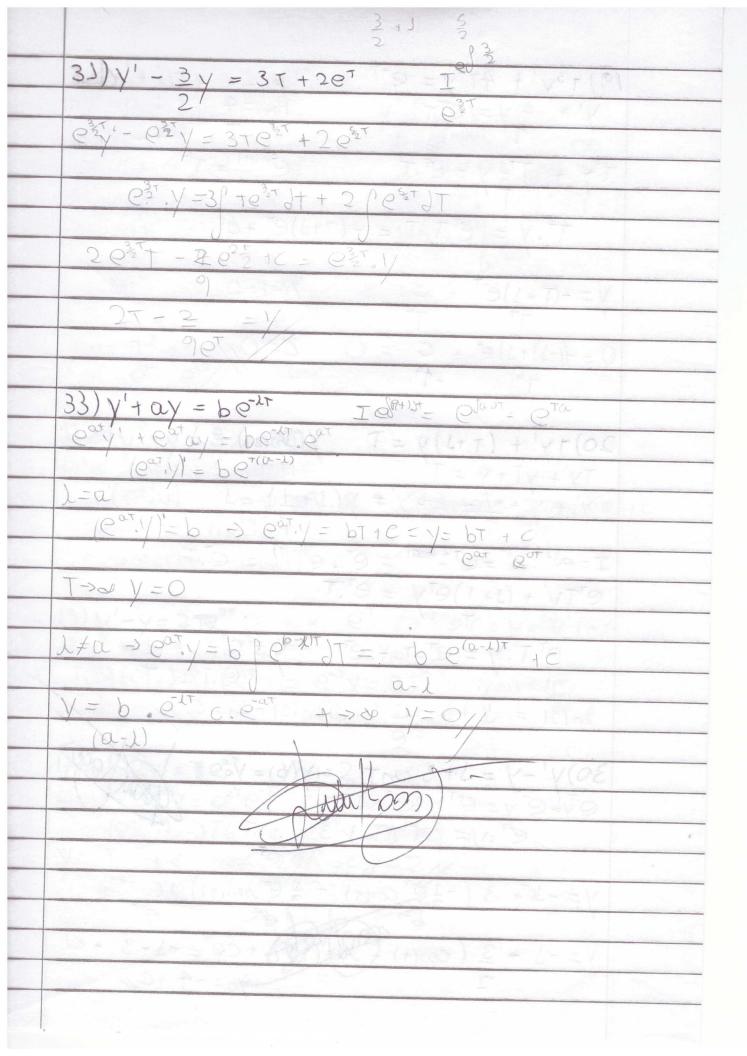
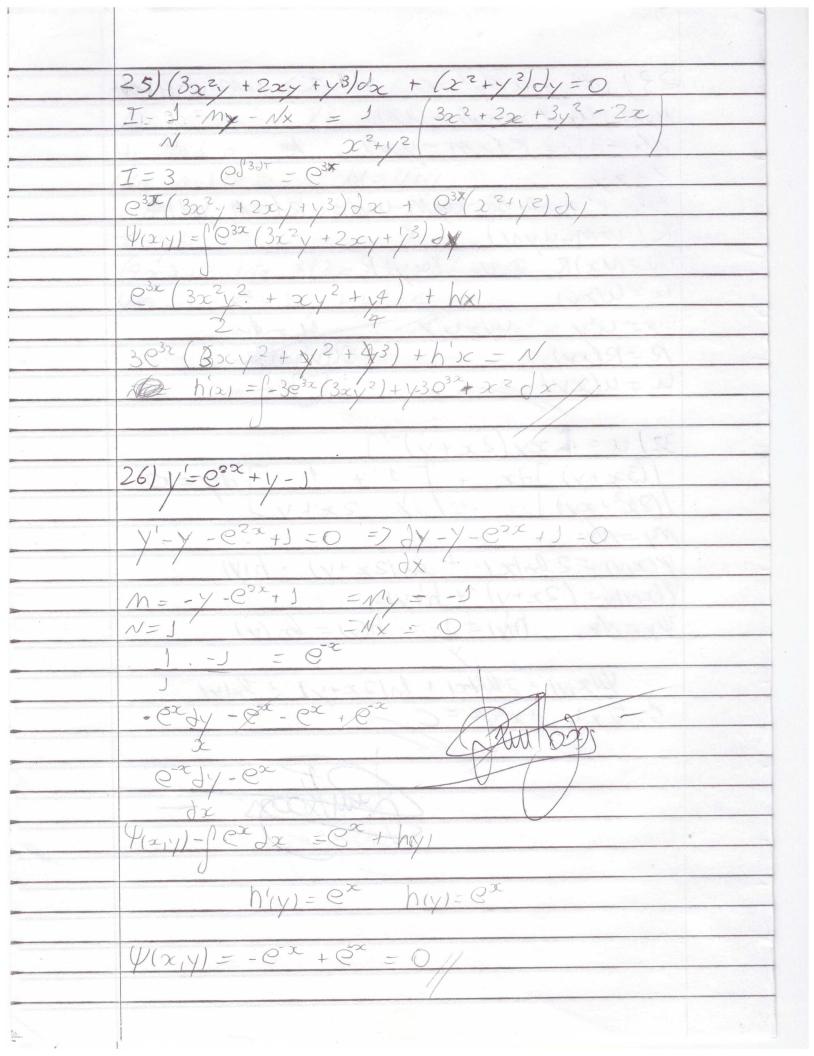


19) $t^{3}y' + 4t^{2}y = e^{-t}$ $y' + 4y = e^{-t}t^{3}$ $T'' + T'' + T'' + T'' + e^{-t}t^{3}$ $T'' + T'' + e^{-t}t^{3}$ $T'' + e^$		
$y' + 4y = e^{T}T^{3}$ $T^{2}y' + T^{4}y = e^{T}.T$ $T^{2}y' + T^{4}y' = e^{T}.T$ $T^{2}.y = \int_{0}^{e^{T}}.TT = -(T+1)e^{T} + e$ $y = -(T+1)e^{T}. + C$ $y = -(-1)+1)e^{T}. + C = 0$ $20)ty' + (T+1)y = T$ $y' + y = T$ $y' + y' + y = T$ $y' + y + y = T$ $y' + y + y + y = T$ $y' + y + y + y + y + y + y + y + y + y +$	T - 200 - 15 - 200 100 100 100 100 100 100 100 100 100	19) + 3 y ' +
$T^{2}y' + T^{2}4y = e^{T}.T \qquad e^{2m\pi t} = T^{4}$ $T^{2}.y = \int e^{T}.TdT = -(T+1)e^{T} + e$ $Y = -(T+1)e^{T}. + C \qquad Y(t) = 0$ $T^{2} \qquad T^{3}$ $Q = -(-1)+11e^{3} + C = 0 \qquad C = 0$ $T^{4} \qquad T^{4}$ $20) + Y' + (T+1)y = T \qquad Y(\ln(2)) = 1$ $Ty' + yT + y = T$ $Y' + y + y' = 2 \Rightarrow y' \neq y(1+1) = 1$ $T = e^{1} + \frac{1}{2} = e^{T} + \frac{1}{2} = e^{T}. e^{m\pi} = e^{T}. e^{m\pi} = e^{T}. T$ $e^{T}.Y' + (1+1)e^{T}y = e^{T}.T$ $e^{T}.Y' = e^{T}.T - e^{T} \qquad Y = e^{T}.T - 1 = e$ $20)Y' - Y = 1 + 3 \text{ Ann} T \qquad Y(0) = Y_{0}$ $e^{T}.Y = e^{T}.T + 3 \text{ Ann} T \qquad Y(0) = Y_{0}$ $e^{T}.Y = e^{T}.T + 3 \text{ Ann} T \qquad Y(0) = Y_{0}$ $e^{T}.Y = e^{T}.T + 3 \text{ Ann} T \qquad Y(0) = Y_{0}$ $e^{T}.Y = e^{T}.T + 3 \text{ Ann} T \qquad Y(0) = Y_{0}$ $e^{T}.Y = e^{T}.T + 3 \text{ Ann} T \qquad Y(0) = Y_{0}$ $e^{T}.Y = e^{T}.T + 3 \text{ Ann} T \qquad Y(0) = Y_{0}$		
$T^{9} \cdot y = \int_{C^{7}} T \cdot dT = -(T+1)C^{7} + C$ $V = -(T+1)C^{7} \cdot + C \qquad Y(-1) = 0$ $T^{9} T^{9}$ $0 = -(-1)+1)C^{9} \cdot + C = 0 C = 0$ $T^{9} T^{9}$ $V + Y^{7} + Y = T$ $Y' + Y + Y = T$ $Y' + Y + Y = T$ $Y' + Y + Y = T$ $T = C^{7} \cdot Y + (J+1)C^{7} Y = C^{7} \cdot T$ $C^{7} \cdot Y' + (J+1)C^{7} Y = C^{7} \cdot T$ $C^{7} \cdot Y' + (J+1)C^{7} Y = C^{7} \cdot T$ $C^{7} \cdot Y' + (J+1)C^{7} Y = C^{7} \cdot T$ $C^{7} \cdot Y' + (J+1)C^{7} Y = C^{7} \cdot T$ $C^{7} \cdot Y' + (J+1)C^{7} Y = C^{7} \cdot T$ $C^{7} \cdot Y' + (J+1)C^{7} Y = C^{7} \cdot T$ $C^{7} \cdot Y' + (J+1)C^{7} Y = C^{7} \cdot T$ $C^{7} \cdot Y' + (J+1)C^{7} Y = C^{7} \cdot T$ $C^{7} \cdot Y' + (J+1)C^{7} Y = C^{7} \cdot T$ $C^{7} \cdot Y' + (J+1)C^{7} Y = C^{7} \cdot T$ $C^{7} \cdot Y' + (J+1)C^{7} Y = C^{7} \cdot T$ $C^{7} \cdot Y' + (J+1)C^{7} Y = C^{7} \cdot T$ $C^{7} \cdot Y' + (J+1)C^{7} Y = C^{7} \cdot T$ $C^{7} \cdot Y' + (J+1)C^{7} Y = C^{7} \cdot T$ $C^{7} \cdot Y' + (J+1)C^{7} Y = C^{7} \cdot T$ $C^{7} \cdot Y' + (J+1)C^{7} Y = C^{7} \cdot T$ $C^{7} \cdot Y' + (J+1)C^{7} Y = C^{7} \cdot T$ $C^{7} \cdot Y' + (J+1)C^{7} Y = C^{7} \cdot T$ $C^{7} \cdot Y' + (J+1)C^{7} Y = C^{7} \cdot T$ $C^{7} \cdot Y' + (J+1)C^{7} Y = C^{7} \cdot T$ $C^{7} \cdot Y' + (J+1)C^{7} Y = C^{7} \cdot T$ $C^{7} \cdot Y' + (J+1)C^{7} Y = C^{7} \cdot T$ $C^{7} \cdot Y' + (J+1)C^{7} Y = C^{7} \cdot T$ $C^{7} \cdot Y' + (J+1)C^{7} Y = C^{7} \cdot T$ $C^{7} \cdot Y' + (J+1)C^{7} Y = C^{7} \cdot T$ $C^{7} \cdot Y' + (J+1)C^{7} Y = C^{7} \cdot T$ $C^{7} \cdot Y' + (J+1)C^{7} Y = C^{7} \cdot T$ $C^{7} \cdot Y' + (J+1)C^{7} Y = C^{7} \cdot T$ $C^{7} \cdot Y' + (J+1)C^{7} Y = C^{7} \cdot T$ $C^{7} \cdot Y' + (J+1)C^{7} Y = C^{7} \cdot T$ $C^{7} \cdot Y' + (J+1)C^{7} Y = C^{7} \cdot T$ $C^{7} \cdot Y' + (J+1)C^{7} Y = C^{7} \cdot T$ $C^{7} \cdot Y' + (J+1)C^{7} Y = C^{7} \cdot T$ $C^{7} \cdot Y' + (J+1)C^{7} Y = C^{7} \cdot T$ $C^{7} \cdot Y' + (J+1)C^{7} Y = C^{7} \cdot T$ $C^{7} \cdot Y' + (J+1)C^{7} Y = C^{7} \cdot T$ $C^{7} \cdot Y' + (J+1)C^{7} Y = C^{7} \cdot T$ $C^{7} \cdot Y' + (J+1)C^{7} Y = C^{7} \cdot T$ $C^{7} \cdot Y' + (J+1)C^{7} Y = C^{7} \cdot T$ $C^{7} \cdot Y' + (J+1)C^{7} Y = C^{7} \cdot T$ $C^{7} \cdot Y' + (J+1)C^{7} Y = C^{7} \cdot T$ $C^{7} \cdot Y' + (J+1)C^{7} Y = C^{7} \cdot T$ $C^{7} \cdot Y' + (J+1)C^{7} Y = C^{7} \cdot T$ $C^{7} \cdot Y' + (J+1)C^{7} Y = C^{7} \cdot T$ $C^{7} \cdot Y' + (J$	701+19-Tay-T-101	T
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20) $ty' + (\tau + J)y = T$ $y(\ln(2)) = J$ Ty' + yT + y = T $y' + y + y' = J \Rightarrow y' + y(J + L) = J$ $T = e^{JJ + \frac{1}{2}JT} = e^{T + \frac{1}{2}mT} = e^{T} \cdot e^{JmTJ} = e^{T} \cdot T$ $e^{T}Ty' + (J + 1)e^{T}y = e^{T}y = e^{T}y = e^{T}y = e^{T}y = e^{T}$	0 = 0//	0=-(-1)+1)e
$Ty' + yT + y = T$ $y' + y + y = 2 \Rightarrow y' + y(1 + 1) = 1$ $T = e^{1/4 + 3T} = e^{T + 6m\pi I} = e^{T} \cdot e^{5m/T} = e^{T} \cdot T$ $e^{T}Ty' + (1 + 1)e^{T}y = e^{T} \cdot T$ $e^{T}Ty' + (1 + 1)e^{T}y = e^{T} \cdot T$ $e^{T}Ty' + (1 + 1)e^{T}y = e^{T} \cdot T$ $e^{T}Ty' + (1 + 1)e^{T}y = e^{T} \cdot T$ $e^{T}Ty' + (1 + 1)e^{T}y = e^{T} \cdot T$ $e^{T}Ty' + (1 + 1)e^{T}y = e^{T} \cdot T$ $e^{T}Ty' + (1 + 1)e^{T}y = e^{T} \cdot T$ $e^{T}Ty' + (1 + 1)e^{T}y = e^{T} \cdot T$ $e^{T}Ty' + (1 + 1)e^{T}y = e^{T} \cdot T$ $e^{T}Ty' + (1 + 1)e^{T}y = e^{T} \cdot T$ $e^{T}Ty' + (1 + 1)e^{T}y = e^{T} \cdot T$ $e^{T}Ty' + (1 + 1)e^{T}y = e^{T} \cdot T$ $e^{T}Ty' + (1 + 1)e^{T}y = e^{T} \cdot T$ $e^{T}Ty' + (1 + 1)e^{T}y = e^{T} \cdot T$ $e^{T}Ty' + (1 + 1)e^{T}y = e^{T} \cdot T$ $e^{T}Ty' + (1 + 1)e^{T}y = e^{T} \cdot T$ $e^{T}Ty' + (1 + 1)e^{T}y = e^{T} \cdot T$ $e^{T}Ty' + (1 + 1)e^{T}y = e^{T} \cdot T$ $e^{T}Ty' + (1 + 1)e^{T}y = e^{T} \cdot T$ $e^{T}Ty' + (1 + 1)e^{T}y = e^{T} \cdot T$ $e^{T}Ty' + (1 + 1)e^{T}y = e^{T} \cdot T$ $e^{T}Ty' + (1 + 1)e^{T}y = e^{T} \cdot T$ $e^{T}Ty' + (1 + 1)e^{T}y = e^{T} \cdot T$ $e^{T}Ty' + (1 + 1)e^{T}y = e^{T} \cdot T$ $e^{T}Ty' + (1 + 1)e^{T}y = e^{T} \cdot T$ $e^{T}Ty' + (1 + 1)e^{T}y = e^{T} \cdot T$ $e^{T}Ty' + (1 + 1)e^{T}y = e^{T} \cdot T$ $e^{T}Ty' + (1 + 1)e^{T}y = e^{T} \cdot T$ $e^{T}Ty' + (1 + 1)e^{T}y = e^{T} \cdot T$ $e^{T}Ty' + (1 + 1)e^{T}y = e^{T} \cdot T$ $e^{T}Ty' + (1 + 1)e^{T}y = e^{T} \cdot T$ $e^{T}Ty' + (1 + 1)e^{T}y = e^{T} \cdot T$ $e^{T}Ty' + (1 + 1)e^{T}y = e^{T} \cdot T$ $e^{T}Ty' + (1 + 1)e^{T}y = e^{T} \cdot T$ $e^{T}Ty' + (1 + 1)e^{T}y = e^{T} \cdot T$ $e^{T}Ty' + (1 + 1)e^{T}y = e^{T} \cdot T$ $e^{T}Ty' + (1 + 1)e^{T}y = e^{T} \cdot T$ $e^{T}Ty' + (1 + 1)e^{T}y = e^{T} \cdot T$ $e^{T}Ty' + (1 + 1)e^{T}y = e^{T} \cdot T$ $e^{T}Ty' + (1 + 1)e^{T}y = e^{T} \cdot T$ $e^{T}Ty' + (1 + 1)e^{T}y = e^{T} \cdot T$ $e^{T}Ty' + (1 + 1)e^{T}y = e^{T} \cdot T$ $e^{T}Ty' + (1 + 1)e^{T}y = e^{T} \cdot T$ $e^{T}Ty' + (1 + 1)e^{T}y = e^{T} \cdot T$ $e^{T}Ty' + (1 + 1)e^{T}y = e^{T} \cdot T$ $e^{T}Ty' + (1 + 1)e^{T}y = e^{T} \cdot T$ $e^{T}Ty' + (1 + 1)e^{T}y = e^{T} \cdot T$ $e^{T}Ty' + (1 + 1)e^{T}y = e^{T} \cdot T$ $e^{T}Ty' + (1 + 1)e^{T}y = e^{T} \cdot T$ $e^{T}Ty' + $		79
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$\frac{30)y'-y=J+3}{e^{7}-e^{7}+3e^{7}} + \frac{y(0)=y_{0}}{3e^{7}} + \frac{y(0)=y_{0}}{3$	The state of the s	
$e^{\frac{1}{2}} \cdot e^{\frac{1}{2}} \cdot $	e(m/21-2)=0/	m/21 = J
$e^{\frac{1}{2}} \cdot e^{\frac{1}{2}} \cdot $	1 1600	20221
$V = -Je^{2} + 3 \left(-\frac{1}{2}e^{2} \cos(t) - \frac{1}{2}e^{2} \sin(t) \right) + C$	7 /(0) = /0	30) \ - \ =
Y=-Je7+ 3 (-10 cos(+) - 10 cos(+))+C	anti-	Qy=Qy=6
Y=-Je7+ 3 (-10 cos(+) - 10 cos(+))+C	+3 Krintat	6.1
y=-18+31-38 Cos(+) - 38 sen(+))+C		
	+) - = (ren(+)) + C	1 = -18+ 3 1
e' e e	e e	
$y=-J-3(cos(+)+sen(7))+ce^{+}=-J-3.+c$		
2 Yo=-4+C//	Yo=-4+C//	2



23/ uM + uNy' = 0 $I = \mu M)_y - \mu J_x$ $\mu_y M - uxN = \mu J_x - uMy$ Nx - My = k(xM - yN), k Z = xy Cb o' exasto se: $u_y M - uxN = uk(xM - yN) =$ R(uxM - uyN) uy = (ux)R e w = (uy)R. Ux=u'y uy=u'x u'= du R=R(xy) 32) u = [xy(2x+.y) Y(x,y) = 2 ln/x1 + ln/2x+y1 + ln/y/



ydx + (2xy -e-24)dy - y My-) dx 911

