

	L(y) 8(x)	
3	A L[y] = y"-4y' +4y = 6x2eax A L[y] = 0 =================================	
	$W[y_1y_2] = \begin{cases} e^{2x} & xe^{2x} \\ 2e^{2x} & e^{2x} + 3xe^{2x} \end{cases} = e^{4x} + 2xe^{4x} - 2xe^{4x} = e^{4x} + e^{2x} + e^{2x} = e^{4x} + e^{2$	
	40==3x4e2x+2x4e2x==3x4eax	
<b>b</b>	) y=y+yp= [c,e2x + c) xe2x + = x4e2x]	
9		

4) 51 12 50				
4) Salve 100 157 1121				
4) Solve IVP L[y]=y"-2y'+y=4e+Int L[y]=0 == m2-2m+1=0 => (m)	, y(1)=0, y'(1)=0 d' de			
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0				
telled te = e + tent - teat = e at + 0				
· et etitet				
Je= 0, y, + 0, y, = + te+ ln+ = -4+ln+				
U = 30 300 = - Le te the = - 4 that	U, =-4) that dt - u=Int dv = tdt ->			
	A:- 主は V - 三			
U1=-4(Int = - = Statdt) = - 2taint	+2/+1+=-2131, 22= 1212			
Us = 41800 = et 42thet = 4 lint Us = 45 lint dt = 0 = lint dv = dt = 5				
	do=tdt v=t			
Uz = 4 (Intt-Stide) = 4 tint-4 sat = 4tint-4t				
y= (-2+3 lnt++3)et + (4+1nt-4+)tet = -2+2et lnt++2et+4+2et lnt-4+2et				
yp = ataetInt -3taet				
y(1)=0	y'(1)=0			
y= (, et + cote + 2te t Int - 3te t	y'= c,et + cset + Cstet + 4 tet Int + 2 tet Int - 4tet - 3tet			
0= c,e + C2e + 0 -3e	0=C1e+C2e+C2e+O+O-4e-3e			
	C1e + 2c2 e = 7e			
C1e+C2e=3e				
C1+C2=3 -> C1=3-C2 -> C1=3-4=-1	(1+2c2=7 -> 3+c2=7 -> c2=4			
1 1 213	+			
y=-e+ 4te+ 2tae+ Int - 3ta	e			
y=et(2t2 Int - 3t2+46-1)				
	(I)			
	· ·			