OHURB MANT KETOLLE 15/6N 603/027 CIVIL ENGINEERING ANG 381 ASSVANMENT 4 1) a-or ) by - sally + 2 y 20 a-n2)23 = (1-n2)y4 uzy gunzy (n+2) V21-22 V2-22 V2=-2 V320 w^= u^v +nu(n-1)v1+n(n-1)u(n-2)v2+n(n-1)(n-2)u(n-3)s 2 y(n+2), (1+2+2)+ny(n+1)-2x+n(n-1)y" +0  $w^{n} = (1-n^{2})y^{(n+2)} - 2 \log_{n}(n+1) = -n(n-1)y^{n}$ =  $(1-x^{2})y^{(n+2)} - 2 \log_{y}(n+1) - (n^{2}-n)y^{n}$ W3- W W22 - 2 sidy 2 - 2)(y' uzy unzymi  $2y^{(n+1)}$  -  $2x + ny^{n}$  - 2+02-20cy (n+1) - 2ny W3 2 2y
Uzy un=yn

V22 V'20  $\frac{23^{n}}{2(1-2)^{n}y^{(n+1)}} - 201y^{(n+1)} - 201y^{(n+1)} - (n^{2}-n)y^{n} - 2ny^{n} + 2y^{n}}$   $\frac{2(1-2)^{n}y^{(n+1)}}{2(1-2)^{n}y^{(n+1)}} - 201y^{(n+1)} - y^{n}(n^{2}-n+2n+2)$   $\frac{2(1-2)^{n}y^{(n+1)}}{2(1-2)^{n}y^{(n+1)}} - (n^{2}+n^{2}-2)y^{n}$  $\frac{2(1-0)y^{(n+2)}-(n+1)z^{(0)}y^{(n+1)}-(n^2+n^2)y^n}{y^{(n+2)}-(n^2+n^2)y^n}$   $\frac{y^{(n+2)}-(n^2+n^2)y^n}{(n^2+n^2)y^n}$ [y2] = -2 [y] [y4] = 4 [y] = 4x=2[y] = z-8[y] [45] = 10 [y3] = 10×0=0 [46] 2 18[4] 218x-8[40] 2-144[40]0 y=y0+2 (y!)0+2 (y²)0+2(3)0+2(3)0+2 21 (y²)0+

	1 1-12+7 100
$= \frac{6}{5^{4}} + \frac{4}{5^{3}} + \frac{1}{5^{2}} + \frac{4}{5}$	L [8-t-e-2+] = [0]
IV L Ce-26 COSSt]	2 pob 1 - 1 6 6+1 0+2
L [cos st] 2 S	6 6+1 6+2
82+25	In (5+17-1n (5+2)
-[e-2+(0)56] 2 S+2	$2 \left( n \left( \frac{\sigma+1}{\sigma+2} \right) \right)$
$(s+2)^2+25$	[0+2]
= S+2	= In [3+1]
$(s+2)^2+25$	$\geq \ln \left( \frac{3+1}{5+2} \right)$
v bsin3t	$= -\ln \left[ \frac{S+1}{S+2} \right]$
L[sm36] = 3	L S+2 J
32+9	$\ln \left(\frac{s+1}{s+2}\right)^{-1} \geq \ln \left(\frac{s+1}{s+1}\right)$
L[63m3t] 2-11 [3]	[5+2] [5+1]
L[63m3t] 2-1 d [3]	VII) L [ e4+ Cos 2+ ]
uz3 du20	L[cos 2+) - 3/82+4
V252+9 dv 228	L[e4+cos2+] = 5-4
72 - [22-0] -	(3+4) + 4
$-1\left[\frac{0-65}{(3^{2}+9)^{2}}\right] = \frac{65}{(3^{2}+9)^{2}}$	vii) tsm2t
V1) e-6-0-26 9	L(8m2t] = 2 /5344
L[e-t_e-2+]	, , ,
	2[+sm2+]2-12s[2] Jo[>74
3+1 - 1 S+1 S+L	
	U-2 du 20

vz 32+4 dv 223	22
-1 [0-45] = 45	$(5-3)^3$
((5 <sup>2</sup> +4) <sup>2</sup> ) (5 <sup>2</sup> +4) <sup>2</sup>	L [4e3t] = 4
1x) t3+4t2+5	S-3
L[t3] + L [462] + L[5]	1. 63t [t2+4] = 2 + 4
$\frac{23!+4\left[\frac{2!}{5^3}\right]+\left[\frac{5}{5}\right]}{5^4}$	(S-3)3 S-3
2, [3,] [2]	sinh 26
2 6 + 8 + 5 5 <sup>4</sup> S <sup>3</sup> S	E
	L [smh2t] = 2/824
x) t <sup>2</sup> cost	L[3/nh2b] = 1 2 b ] 32-4
T [cost] = 2	L 6 J J 5=4
5 <sup>2</sup> +1	22 00 1
L[t2(0)t]2(-1)2d2 [3]	
Corrig	
ds [87+1]	[ 2 2 Js [ 2 ]
ds [82+1]	bun 2 - ban 8
ers duzi	-tan-18/2
Vzs²+1 dvz2s	[tan 2]-1
C3+ (K2+4)	2 tan 1 2
L [t2e3+ 4e3+)	5 4
L[82 (36) 2 2/53	

1 2 5-6 3) convert the following to time (t) (5-2) (5-4) Lonary [ + B ] 1) 5-5 (3-3)(5-4) 25-6 = A + B (cs-2)(s-4 5-2 8-4 S-5 = A + B Cs-3)(9-4) S-3 5-4 25-62 A CS-4) + B(82) 9+5=4 5-5 = A(3-4) + B(3-3) 2(4)-62 4(4-4)+B(4-2) at 5 = 4 2226 4-5 2 A(4-4)+8(4-3) B=1 -1= A(0)+B(-1) at 8=2 - 1=0+B 2 (2)-6 z A (2-4) + B(2-2) 2(t) = L' [ 1 + 1 at 5-3 3-5 = A (3=4)+B(3-3) (Cs-2) (S-4 = 2 Z-A+B(0) DULT) 2 (2+ + 64+ 1-1 [2 + -1] 5-3 5+4] idi) 55-8 2(4)=203+-04+ L'z A + B ]

55-8 2	A + B S 5-4	-42 NH = -1
	-8= A (5-4) BS	at sz1
	8 = A (4-4) + B(4)	12-3(1)-4=A(-1)2+B(1-3)(-1)+(1-3)
12:	12/4 = 3	CZ 6/2
at	5=0	52-35-4= A32-2ASTA+65-65+B5-
	z = A(0-4) + B(0) z - 4A	B43+B3) A+3B-3(=-4
CONTRACTOR OF THE PERSON NAMED IN COLUMN TO	z-8/4-2	-(+3B-3(3)=-4 3B210-4
2(t) =2+	= +3 S=4]	3826 B26/3
N) 82-3	33-4	B=2
ZLICA	(s-1) <sup>2</sup> + B + C	
The state of the s	3 8-1 (5-1)2) 2AC3-1)2+B(3-3)(3-1)+1	(G-3)
82-35-42	A (3-1) 4 B(3-3/3-12+ (6-3)	)+((s-3)
(3)-3(3)-42		