NAME: OMOYIBO EMEUEJEVOKE PRECIOUS

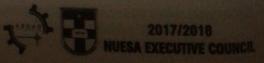
DEPARTMENT: ELECTRICAL ELECTRONICS

MATRIC NO:15/ENG04/045

SUBJECT: ENG381

OMOTIBO EMUETAVORE PRECIOUS.	+
15/ENG 04/045	
CLECT LELECT ENG.	-
Assianment.	
a) d2y + 4dy +54 = 65m to.	
dx dx	
d2y , 4dy +57=0	
And die	
m2+4m+5=0	
- 5 t J62-4ac	
2'9	-
- q + \(42-4(1)(5)	
2 (1)	
-4± J-4	
2	
- 4±j2	
2	
$m = -2 \pm j$.	
c.f y=e-20 (A coso + B sine)	
P. E = y = C Cust + D Sint.	
dy - c Sin O + D coso	-
do	
d24 C cos 0 - D sino	
das -	

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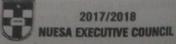


- C (US 0 - D Sin 0 +4 (- (Suh 0 + D Sin 0) + 5 (CO)
+DSm6) = 65m0.
-(CUSA - DSi) 0 - 4 c sin 6 + 40 cus 6 + 5 cus 6 + .
30 Sin 0 = 6 Sin 0
- CCOSO+4060S6+5COSD-USh6-4CSh0.
+50 sio = 6 sio.
COS & (-C+40+5C)+ Sint (-D-4C+50)=65io
Company Coefficients.
-C+40+50=0
-0 - 4c + 50 = 6
-'40+4c=0ci)
- 4c +4D =6 (ii)
40 +40 =0
40-40=6
0 8 2 = -6
8
C = -3/4
40+4(-34)=0
40+(-3)=0
40 = 3
D = 3/4/1 -3/4 Cos c + 3/4 si F
P. I. y = -3/4 Cos 6 + 3/4 si 0 y = 3/4 (-cos6 + 52/6)
G.S = C. F t P. L 2017/2018
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y= e - 30 (a cost + 6500) + 5/4 (-1056+8)
y=0=20 (Acose +6500)+0.75(-1050+500)
@ Alegating the C.f
where we are the
y=0-75 (-es+sin e) =-0.75 (rus 6-51)
fm 0° to 270°
(c) Steady State value.
- EL def - w (1-x)2 (1)
dx' 2
f(m2=0
N-20
nº 0 trice.
4 - 60 = (A+Bzc)
$\frac{p}{f} = f = C \times^2 + D \times^3 + \epsilon \times^4$
= 20x + 31x2+ 4 Ex3
1 / dnet = 2 (+ 6 dnc + 12 ex.
Susapent Symboly (1)
El (20 +6 doc+12 +x)= w/2 (1-x)2
El (2C+6dx+12Ex2=W/2 (22-21x+x2)
. Equating both Sticles.
Elac = WL2/2

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C=W12/2 FEL2
C=W(2/4eL
E (6d = - 2L 0/2
d = - \$1 00/2016 = - WC/66C
E112e = W/2
$e = w/_{24} \epsilon_1$
P. f = y= (w(2) xc2 + (-w) xc3, f w) x4 (461) (661) 2481
$y = \omega(^2 \times^2.6 - 4\omega(x)^3 + \omega \times 4$
2461
When y=0.8 x=0 0=A+B(0)+W/242L(0)
A = 0
dy/doc = 13 + w. (1222 - 1262 + 4203)
2486
when dy/dsc = 0 2c = 0
0=B+W(0)
24 EL
B = 0
G-5 = y = 0+0+w (612x2-4cx3+xc4)
24€1
y = w (612,02 - 41,03+204)
2451

when x = 1
y=w (612(1)2-41(1)3+(1)1)
* ((4) (4)
y = w (60+-40+0)
0,4
24.60
y = Bwly
2486
y = wly
8 EL .
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