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MATRIC NO.: 15/ENG02/012

Thefore Comparing Coefficients
$$C + 4D + 3C = 0$$

$$D + 4C + 5D = 6$$

$$-4C + 4D = 6$$

$$-4C + 4D = 6$$

$$0 = 6$$

$$0 = 6$$

$$0 = 6$$

$$0 = 7$$

$$1 - 4D + 4C = 0$$

$$-4D - 4C = 6$$

$$0 = 7$$

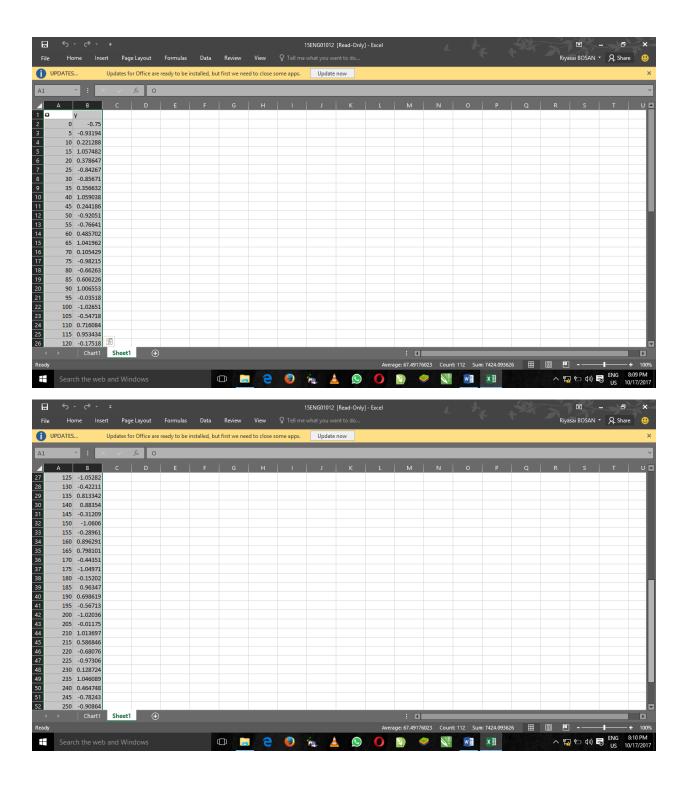
$$1 - 4D + 4C = 0$$

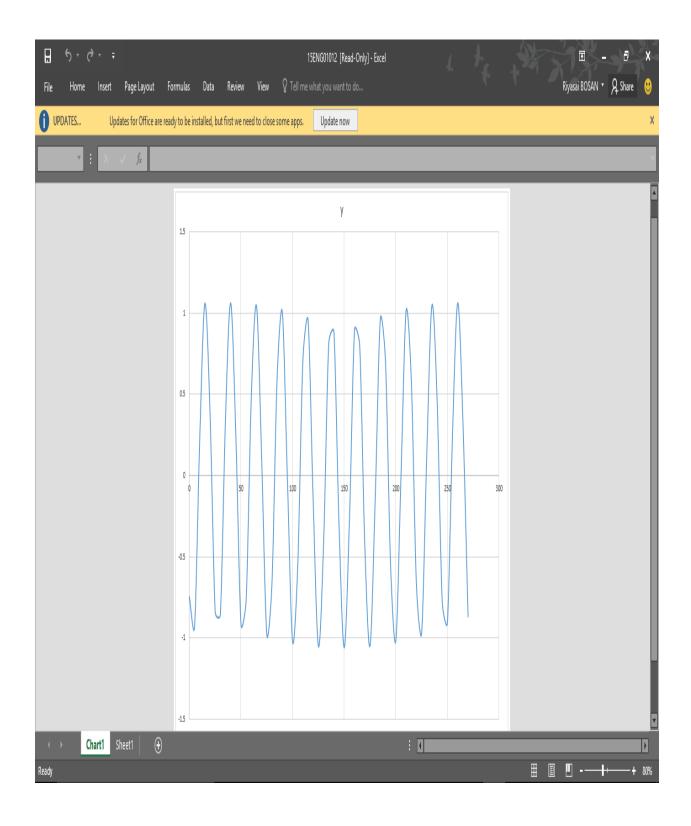
$$1 - 4C + 4D = 6$$

$$1 - 4D + 4C = 6$$

$$1 - 4C + 4D = 6$$

$$1$$





14=20 Acost 10=0 14=20 Acost 10=0 1x = e Bcost + 3 (Sint -10030) dy=-2e Acord -e Asint - 2e Bsino dz -e Brost 134 (sino + cost). 0=-2e^200 Acasoo-e + Asin 00-2e^200 Bsin 000 -e^200 Brossoo + 3/4 (sin 0+ coso). 0=0-0-0-0+3/4(sine+cos). 1-3 sin 0 + 3 (as0 = 8) Comparing Coefficients

```
ET de = 2 (L-2)2
E I \frac{d^2y}{dx^2} = 0
EIm^2 = 0
m^2 = 0
\int m^2 = J0
M = 0 \quad [+wice]
y = (A + Bx)
y = (A + Bx)
C \cdot T
P.T = Cx 4 + Dx3 + Ex2 = y

dy = 4 Cx3 + 3 dx2 + 2 Rx
 124 = 12 Cx2 + 6 0x +28
  !- EI[12(x2+60x+2E]=4 [L2-2(x+x3)
  EIZE = WL
     1- e = wl2
4EI
   - EI6d* =-W2L
        d = - WL
   EI1200 = W of
       C = W
           24EI
 1- P.I = W x4 + WC x3 + W2 2
24EI GEI 4EI
= Wx4-4WLx3+6Wl2x2
         W 24 EI
W 24 - 41x3 + 612w7
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```
-G.3. 1y = (A+Bx) + w (x4+41x3+6000)
 at y=0 x=0'
)= A+0+ w (0-0+0)'
24EI
dg = Bx + w (4x3-12Lx2+12L2)
dx 24EI
 at dy = 0 , x = 0'
 1-0=B+W (0)-
 1 - B = 0
1 - y = (0 + 0x) + w (x^{4} - 4(x^{3} + 6l^{2}x^{2})
      y = W (x^{4} - 4Lx^{3} + 6L^{2}x^{2})
24EI
       = \frac{1 - 1f}{\omega} \left( \frac{1}{L^4 - 4^2 L - L^3 + 6L^2 - L^2} \right).
     y = w (L4-4L4 +6L4)
24EI
      y = 300L4
24EI
y = WL
8EI
```