LAMEY MANENDRA THAKUR 110107589

20

(D2+1) y(x) = sin 2 + x cos x

4(0)

41(0)

can write We given eg

sin x CO3 2

sin a + a Co: X

consider the daxillosal

> D2 +1 = 0

D

complimentary 02 **,** 's

> cos a + (e 611 2

Now, we can take

 $y_{p} = A \sin x + B \cos x + ((x+0) \cos x + x + (x+0) \cos x + x + (x+$

= A sin x + 8 cos x + [(x+D] sin x + [Ex+F] cosx

1pl=A(corn+B(-8inn)+[(cn+0) cosn+sinx(0) +[(En+F) (-sinn)+cosn [E]

7p' = A co17 + B (-sinx) + (Odin7+(12+D)

co1 x + (E) co1x + (Fx+F)(-sinx)

3p'=A ein a - B cos a + c cos a

79" = - A sin x - R co1x +2(co1x - (c4+5)) sing - 2 G sin x - (8x+F) co1x

y" + y = sin m + n coin

- A 110 a - B corn + 2c corn - (cx+0) dan

- 2E sin n - (Ex+P) corn + A don

+ B corn + (cx+0) sin a + (Ex+E) corn

= Sin u + x corn

AMEY MAHENDRA THAKUR "110107589 y' = C, (-sin x) + C2 cour + x2 (losy) · 7 c + 34 n riv or + rais CO3 2 7 C23 x