y” – 3 y’ – 4y = e2x

Persamaan kuadrat

r2 – 3r – 4 = 0

(r-4)(r+1) = 0

r=4 & r = -1

yh = C1e4x + C2e-x

yp = Ae2x

y’p = 2Ae2x

y”p = 4Ae2x

Diatas adalaj PDB orde 2

4Ae2x – 3 . 2Ae2x – 4 . Ae2x = e2x

-6A = 1

A = -1 / 6

yp = -1/6 e2x

Solusi Total:

y = yh + yp

jawaban forum

y” – 9y = x+2

r2 – 9 = 0

r = +- 3

yp = AX + B

y’p = A

y”p=o

yh= C1e3x + C2e-3x

-9 (AX+B) = X+2

-9AX – 9B = X+2

-9A=1 🡪 A = -1/9

-9B=2 🡪 B = -2/9

Yp = -1/9 x – 2/9

Solusi total = C1e3x + C2e-3x + (-1/9 x – 2/9)