Mandavi

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Tutorial-3 Duley Page

Examples on Linear Differential Equation Q. Solve the following 1) dyldre + Py=9 your of 2 19:00 Ans: C) Bernoullies D. E.

2) 1 eax = ?

D

Ans: C) eax /a

3) D. E. dx + Pr = 9 hasintegral factors
as dy

Ans: A) espare y For D. E. f(D) y = 0, complete solution is Ans: A) C.F. +P. T.

5] If D2 (D2+1) y=0 then roots of 4.6. Ans: B Only imaginary

Mandavi ivolomom Duley which 6) For the eax = 1 eax, but if f(a) of then Ans: B] Differentiale (D) 7) How many types of mon-repeated Ans: c) 2 8) If A. E. has m,=1+i, m,=1-i then Ans: D ex (C1(0821 + G Sinx) 9) 9) C.F. for D.E. is y= (C+C)31 +C3 then roots of A.E. care Ans.D] 0, -3, -3 (C) $C \cdot F \cdot = e^{\times} (C(+Gx)\cos 5x + C(x)) \sin 5x + C(x) \sin 5x + C(x) + C(x)$ Ans: D) ù ± à VZ 5 1± à VZ