

Tutorial – 3

Examples on Linear Differential Equation

Q. Solve the following

1)

$$+ P y = Q y^n$$

A] Homogeneous D.E.

B] Linear D.E. with constant coefficient

C] Bernoulli's D.E.

D] Exact D.E.

2)

A] a B] C] D] x

3)

D.E. $+ P x = Q$ has integral factors as

A] B] C] D]

4)

A] C.F.+P.I B] P.I. C] C.F. D] P.I.- C.F

5)

If

A] Only Real B] Only Imaginary

C] Real and Imaginary C] Zero

6)

For

A] Integrate $f(D)$ B] Differentiate $f(D)$

C] Replace D by a D] Replace a by D

7)

How many types of non-repeated roots A.E. has

A] 0 B] 1 C] 2 D] 3

8)

If A.E. has

A] + B]

C] D]

9]

If C.F. for D.E. is $y = + +$ then roots of A.E. are

A] 3,3, B] 0,3,3 C] 3,-3,0 D] 0,-3,-3

10]

C.F. =

A] B]

C] D]