

## SNS COLLEGE OF TECHNOLOGY



(An Autonomous Institution)

Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai Accredited by NAAC-UGC with 'A++' Grade (Cycle III) & amp; Accredited by NBA (B.E - CSE, EEE, ECE, Mech & D.Tech.IT) COIMBATORE-641 035. TAMIL NADU

## **DEPARTMENT OF MATHEMATICS**

Type 
$$\pi$$
:  $R(x) = Sin ax$  (or)  $\cos ax$ 

Replace  $\mathcal{D}^2 \rightarrow -a^2$ 

Solve:  $(\mathcal{D}^2 + \psi)y = Sin 3x$ 

Solve: The  $A \in Si$ ,

 $m^2 + \psi = 0$ 
 $m^2 = -\psi$ 
 $m = \pm 2i = 0 \pm 2i$ 
 $x = 0, \beta = 2$ .

C.  $F = e^{ax} (A \cos \beta x + B \sin \beta x)$ 
 $= e^{0x} (A \cos \alpha x + B \sin \alpha x)$ 
 $= e^{0x} (A \cos \alpha x + B \sin \alpha x)$ 

C.  $F = A \cos \alpha x + B \sin \alpha x$ .

P.  $T = \frac{\sin 3x}{\mathcal{D}^2 + \psi}$ 
 $= \frac{\sin 3x}{-9 + \psi}$ 

Sin  $ax = \sin 5x$ 
 $a = 3$ 
 $a = 3$ 
 $a = 3$ 
 $a = 3$ 

Fin  $ax = 3$ 
 $a = 3$ 
 $a$ 



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