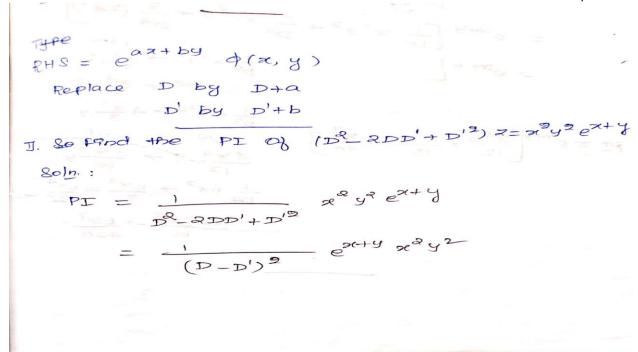


## SNS COLLEGE OF TECHNOLOGY



(An Autonomous Institution) Coimbatore-641035.

UNIT-III PARTIAL DIFFERENTIAL EQUATIONS Solution of Second Order Partial Differential Equations





## SNS COLLEGE OF TECHNOLOGY



(An Autonomous Institution)
Coimbatore-641035.

UNIT-III PARTIAL DIFFERENTIAL EQUATIONS Solution of Second Order Partial Differential Equations

$$= e^{x+y} \frac{1}{(D+1-(D+1))^2} x^2 y^2$$

$$= e^{x+y} \frac{1}{(D-D')^2} x^2 y^2$$

$$= e^{x+y} \frac{1}{D^2 - 2DD' + D'^2} x^2 y^2$$

$$= e^{x+y} \frac{1}{D^2 - 2DD' + D'^2} x^2 y^2$$

$$= e^{x+y} \frac{1}{D^2 - 2DD' + D'^2} x^2 y^2$$

$$= e^{x+y} \frac{1}{D^2 - 2D' - D^2} x^2 y^2$$

$$= e^{x+y} \frac{1}{D^2 - 2D' - D^2} x^2 y^2 + \frac{4D'^2}{D^2} x^2 y^2$$

$$= e^{x+y} \frac{1}{D^2 - 2D' - D^2} x^2 y^2 + \frac{3D'^2}{D^2} x^2 y^2$$

$$= e^{x+y} \frac{1}{D^2 - 2D' - 2D'$$

cs Scanned with CamScanner