



**TUTORIAL-3**

**SOLUTIONS OF LINEAR EQUATIONS OF HIGHER ORDER WITH CONSTANT  
COEFFICIENT**

1. Solve  $(D^2+3DD'+2D'^2)z=x+y$ .
2. Solve  $(D^3-7DD'-6D'^3)z=\sin(x+2y)+e^{3x+y}$
3. Solve  $(D^2-DD'+D'-1)z=0$ .
4. Solve  $(D^2+2DD'+D'^2)z=x^2y$