

Computational Fluid Dynamics (AE/ME 339)
MAEEM Dept., UMR, Fall 2001

Home Work Problem 11

Perform the transformations for

$$\frac{\partial^2}{\partial \theta^2} \quad \text{and} \quad \frac{\partial}{\partial r}$$

and, along with the results obtained in class, substitute into Laplace's equation in cylindrical coordinates to obtain Laplace's equation in Cartesian coordinates. See topic15 slides for procedure.