



NATIONAL UNIVERSITY OF TECHNOLOGY, ISLAMABAD

QUIZ III (CALCULUS II), SPRING 2019

DATED: MAY 13, 2019

Q.1 Use the chain rule to find the values of $\frac{\partial z}{\partial r}\bigg|_{r=2, \theta=\pi/6}$ and $\frac{\partial z}{\partial \theta}\bigg|_{r=2, \theta=\pi/6}$ if $z = xye^{x/y}$ where $x = r \cos \theta$ and $y = r \sin \theta$.

“Start where you are. Use what you have. Do what you can.” ~ Arthur Ashe