

King Fahd University of Petroleum and Minerals
MATH-302

Quiz 6

Name:-

ID:-

Sec.:01

(1) Use residues to evaluate the integral $\int_C \frac{e^z}{(z+1)^3} dz$ over the contour $C: |z| = 3$.

(2) Expand $f(z) = \frac{-1}{z^2-3z}$ as Laurent series valid for $0 < |z| < 3$.