

Department of Mathematics and Statistics (KFUPM)
Math-302 Semester-173 QUIZ V

NAME:

S.No.

ID:

Maximum Marks: 10

Section:01

Time Allowed: 40 minutes

- (1) Evaluate $\int_C |z|^2 dz$, where C is $x = t^2$, $y = \frac{1}{t}$, $1 \leq t \leq 2$.
- (2) Express $\ln(-\sqrt{3} + i)$ in the form $a + ib$.
- (3) Find all values of z satisfying the equation $\cos z = -3i$.
- (4) Sketch the set of point(s) in the complex plane satisfying the inequality
 $|z + 2 + 2i| \leq 2$.