
Assignment 6

MA06 Complex Analysis

Deadline: 17:00, Thursday, Jan 11, 2024

1. Evaluate the given integral along the indicated contour.

(a) $\int_C (z + 3) dz$, where C is $x = 2t$, $y = 4t - 1$, $1 \leq t \leq 3$

(b) $\int_C z^2 dz$, where C is $z(t) = 3t + 2it$, $-2 \leq t \leq 2$.

(c) $\oint_C \operatorname{Re}(z) dz$, where C is the circle $|z| = 1$, $0 \leq t \leq 2\pi$

Notice:

Please write your Email title as "A{Assignment Number}-{Your Student ID}-{Your Name}".