Assignment 8

MA06 Complex Analysis

Deadline 17:00, Monday, Jan 22, 2024

- 1. Consider to use Theorems 5.9 and 5.10, when appropriate, to evaluate the given integral along the indicated closed contour(s).
 - (a) $\oint_C \frac{4}{z-3i} dz; |z| = 5$
 - (b) $\oint_C \frac{z^2}{z^2+4} dz; |z-i| = 2$
 - (c) $\oint_C \frac{z^2}{z^2+4} dz; |z+2i| = 1$

Hint:

Read the examples 5.5.1, 5.5.2, and 5.5.3.

Notice:

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