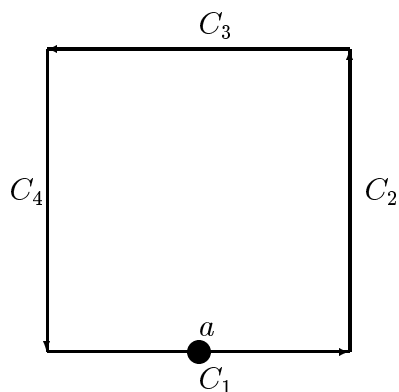


國立臺灣海洋大學河海工程學系1997 工程數學 (三) 第十三次作業



1. Determine the following integral

$$\int_C \frac{1}{(z-a)^2} dz$$

where C is closed loop bounded by a square with four line elements.

- (1) If a is on the element center, calculate the four values.
- (2) Sum the four values.
- (3) If a is on the square center, calculate the four value.
- (4) Sum the four values.