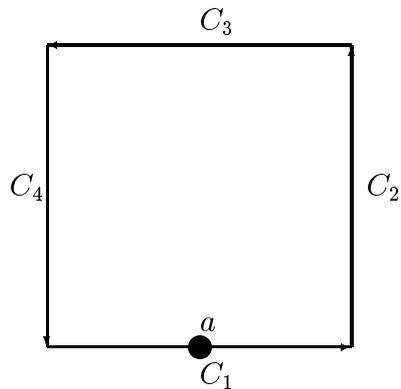


**國立臺灣海洋大學河海工程學系1997 工程數學 (三) 第十二次作業**



1. Determine the following integral

$$\int_C \frac{1}{z - a} dz$$

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.