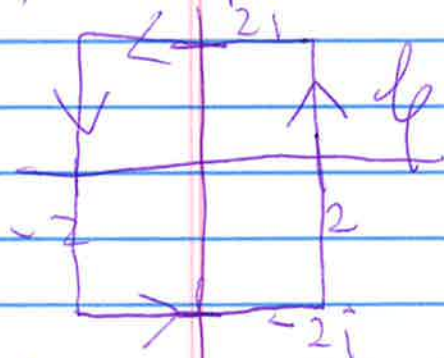


1) Compute $\oint_{|z|=1} \frac{1}{z^2 + 2z + 2} dz$

2) Problem 4 page 159

3) Compute



$$\oint \frac{\cos z}{z(z^2 + 8)} dz$$

4) Problem 7 page 171

5) Problem 1 page 185

6) Problem 1 page 195

7) Find the Laurent series ~~of~~ of

$$\frac{z}{(z-1)(z-3)} \text{ valid in } 0 < |z-1| < 2$$

8) Find the Laurent series ~~of~~ of

$$\frac{1}{(1-z)^2} \text{ in } |z| > 1$$

9) Problem 1.b
page 237

10) Problem 4.b
page 238