

Name:
ID:

Math 112C: Quiz 3

(5) **1.** Compute

$$\int_{\gamma} x - y + iy^2 dz$$

when γ is along the x-axis from $x = 0$ to $x = 1$, then along the line $x = 1$ from $y = 0$ to $y = 1$.

(5) **2.** Compute

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

- a) When C is the circle $|z| = 1$.
- b) When C is the circle $|z + 2| = 1$.