Name:

Complex Analysis - Quiz 12

We consider the following function from $\mathbb{C} \setminus \{0\}$ to $\mathbb{C}$:

$$f(z) = a\frac{1}{z^2} + b\frac{1}{z} + c + dz$$

where $a, b, c, d \in \mathbb{C}$. Let γ be the unit circle travelled counter-clockwisely. Determine $\int_\gamma f$ without computations.