QUIZ-4

Note: This is the last quit in the course.

1. Let $i: S^1 \subset \mathbb{R}^2 \setminus \{(0,0)\}$ be the inclusion map and $\omega = -y d\alpha + \alpha dy$ $\in D^1(\mathbb{R}^2 \setminus \{(0,0)\}).$

Show that

 $\int_{i\omega}^{x} = 2\pi$ $5^{1} \qquad (3)$

2. Show that the differential form which in Problem (1) is closed but not exact.

(3)

0