

(Easier) Practice Quiz 8 Calc 3 11/12/2004

1. Compute $\int_C \langle x^2 + y^2, -xy^2 \rangle \cdot d\vec{r}$ for C the positively oriented rectangle having vertices $(0, 0)$, $(1, 0)$, $(1, 5)$, and $(0, 5)$.

(Harder) Practice Quiz 8 Calc 3 11/12/2004

1. Compute $\int_C \vec{F} \cdot d\vec{r}$ for the vector field $\vec{F}(x, y) = \langle -x^2y, xy^2 \rangle$ where C is the boundary of the region in the first quadrant between a circle of radius 1 and a circle of radius 2.