

(Easier) Practice Quiz 2 Calc 3 11/7/19

1. Compute $\int_C \langle y^2, xy \rangle \cdot d\vec{r}$ for a path C given by $\vec{r}(t) = \langle 2 + 3t, 1 - 5t \rangle$ for $0 \leq t \leq 1$.

(Harder) Practice Quiz 2 Calc 3 11/7/19

1. Compute $\int_C \vec{F} \cdot d\vec{r}$ for the vector field $\vec{F}(x, y) = x^2 y \vec{i} + y^3 \vec{j}$ and with C an arc of a circle (centered at the origin) of radius 3 passing counterclockwise through the first and second quadrants.