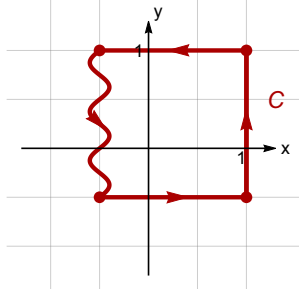
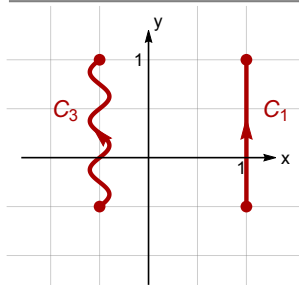


Line Integrals



Question

If \vec{F} is a vector field parallel to \vec{j} and $\int_{C_3} \vec{F} \cdot d\vec{r} = \int_{C_1} \vec{F} \cdot d\vec{r} = 3$, then what is the value of $\int_C \vec{F} \cdot d\vec{r}$?

- A. 6
- B. 3
- C. 0
- D. There is not enough information.