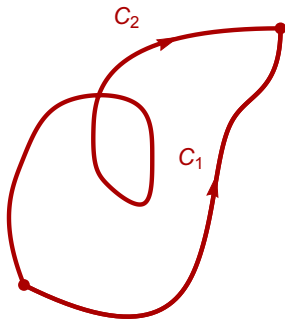


# The Fundamental Theorem



True or False?

If  $\vec{F} = (e^{xy} + xye^{xy})\vec{i} + (x^2e^{xy})\vec{j}$ , then

$$\int_{C_1} \vec{F} \cdot d\vec{r} = \int_{C_2} \vec{F} \cdot d\vec{r}$$

for the oriented curves shown.

- A. True, and I am confident
- B. True, but I am not confident.
- C. False, but I am not confident.
- D. False, and I am confident.