

Green's Theorem



Question

The field $\vec{F} = \frac{-y\vec{i} + x\vec{j}}{x^2 + y^2}$ satisfies $\frac{\partial Q}{\partial x} = \frac{\partial P}{\partial y}$ throughout its domain.

True or False: $\int_{C_1} \vec{F} \cdot d\vec{r} = \int_{C_2} \vec{F} \cdot d\vec{r}$?

- 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.

