

# 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.

