# Stokes' Theorem

## Question

If $\text{curl}(\vec{F}) = 2\vec{i} + (2x+1)\vec{j} - e^x\vec{k}$, compute $\int_C \vec{F} \cdot d\vec{r}$, where $C$ is the circle of radius 1 in the plane $x = 1$ oriented as shown.

A. $-2\pi$

B. 0

C. $2\pi$

D. There is not enough information.