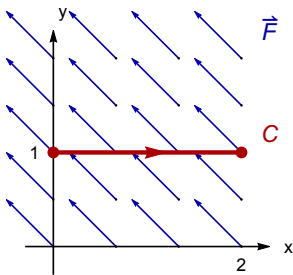




# Line Integrals



## Question

The figure shows a constant vector field  $\vec{F}$  with unit length and an oriented line segment  $C$ . Which of these numbers could be the value of  $\int_C \vec{F} \cdot d\vec{r}$ ?

- A.  $\sqrt{2}$
- B. 2
- C. -2
- D.  $-\sqrt{2}$