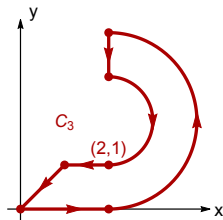
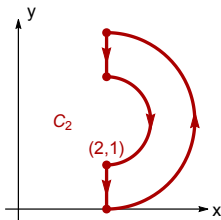
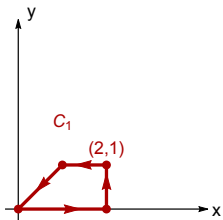


# Green's Theorem



## Question

The figures show 3 curves in the plane. If  $L$  is the line segment from  $(2, 0)$  to  $(2, 1)$ , which of the formulas computes  $\int_{C_3} \vec{F} \cdot d\vec{r}$ ?



- A.  $\int_{C_1} \vec{F} \cdot d\vec{r} + \int_{C_2} \vec{F} \cdot d\vec{r}$
- B.  $\int_{C_1} \vec{F} \cdot d\vec{r} + \int_{C_2} \vec{F} \cdot d\vec{r} + \int_L \vec{F} \cdot d\vec{r}$
- C.  $\int_{C_1} \vec{F} \cdot d\vec{r} + \int_{C_2} \vec{F} \cdot d\vec{r} + 2 \int_L \vec{F} \cdot d\vec{r}$
- D. There is not enough information.