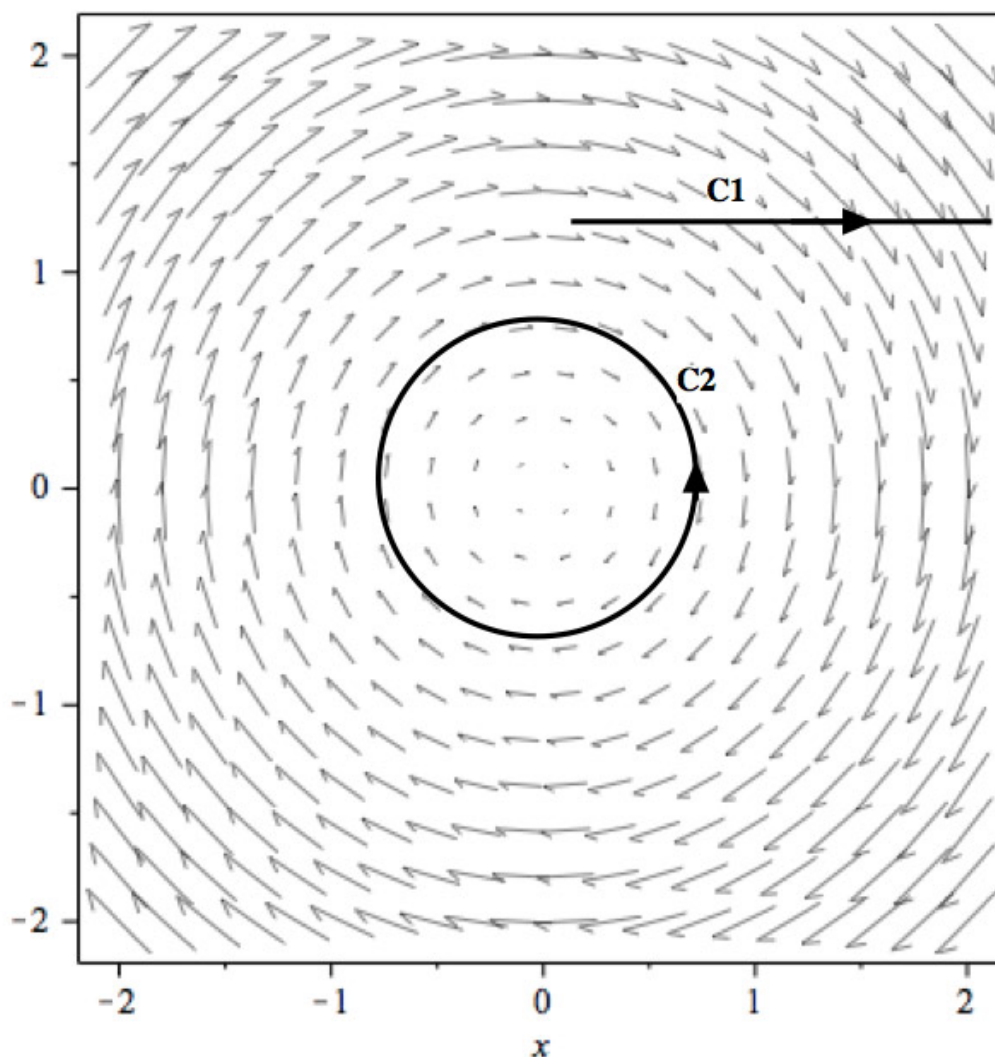


[13.2] - Visualizing Vector Line Integrals

Let \mathbf{F} be the vector field given in the diagram below.



- a. Consider the curve **C1**. Is $\int_{C1} \mathbf{F} \cdot d\mathbf{r}$ positive, negative, or zero? Justify answer.
- b. Consider the curve **C2**. Is $\int_{C2} \mathbf{F} \cdot d\mathbf{r}$ positive, negative, or zero? Justify answer.

- c. Is \mathbf{F} a conservative vector field? Justify your answer.