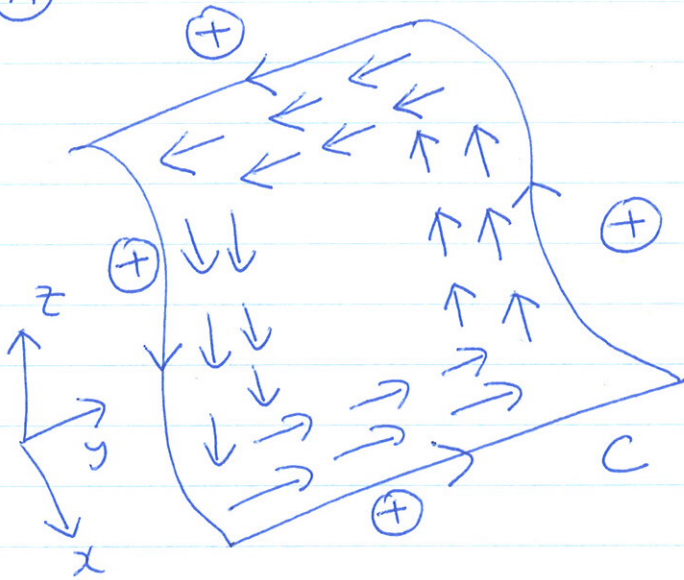


Work Done and Spin

(A)

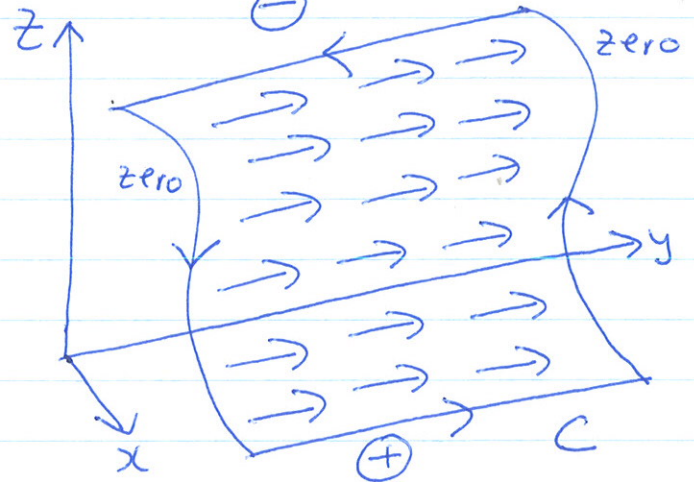


$$\int_C \vec{F} \cdot d\vec{r} = \text{BIG Positive}$$

(B)

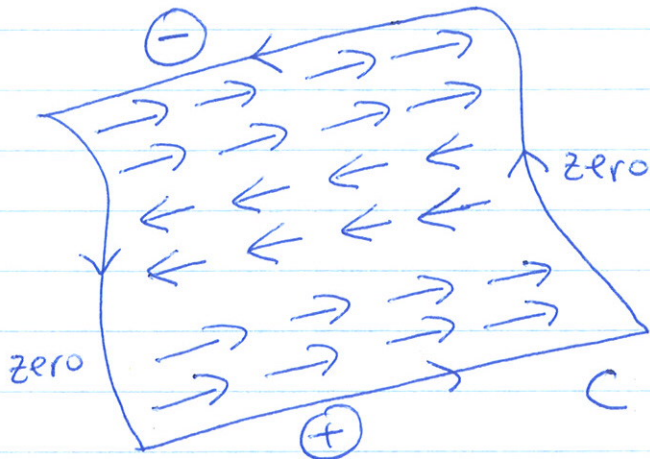
$$\int_C \vec{F} \cdot d\vec{r} = 0$$

Zero Spin on Surface
 $\Rightarrow \text{curl } \vec{F} = \vec{0}$



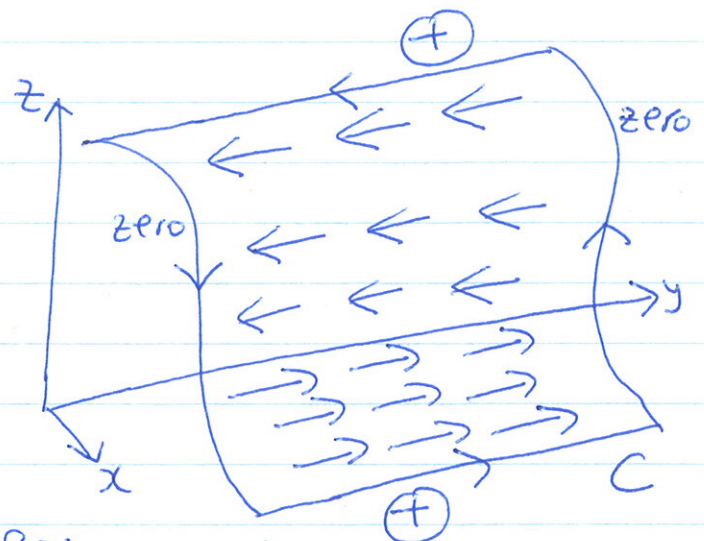
(D)

$$\int_C \vec{F} \cdot d\vec{r} = 0$$



Positive Spin Plus Negative Spin

(C)



$$\int_C \vec{F} \cdot d\vec{r} = \text{Positive}$$