

5.27  
b

Suppose  $\mathbf{A}$  is azimuthal, given by

$$\vec{\mathbf{A}} = \frac{c}{s} \hat{\varphi}$$

What can you say about  $\text{curl}(\mathbf{A})$ ?

- A)  $\text{curl}(\mathbf{A})=0$  everywhere
- B)  $\text{curl}(\mathbf{A}) = 0$  everywhere except at  $s=0$ .
- C)  $\text{curl}(\mathbf{A})$  is nonzero everywhere
- D) ???