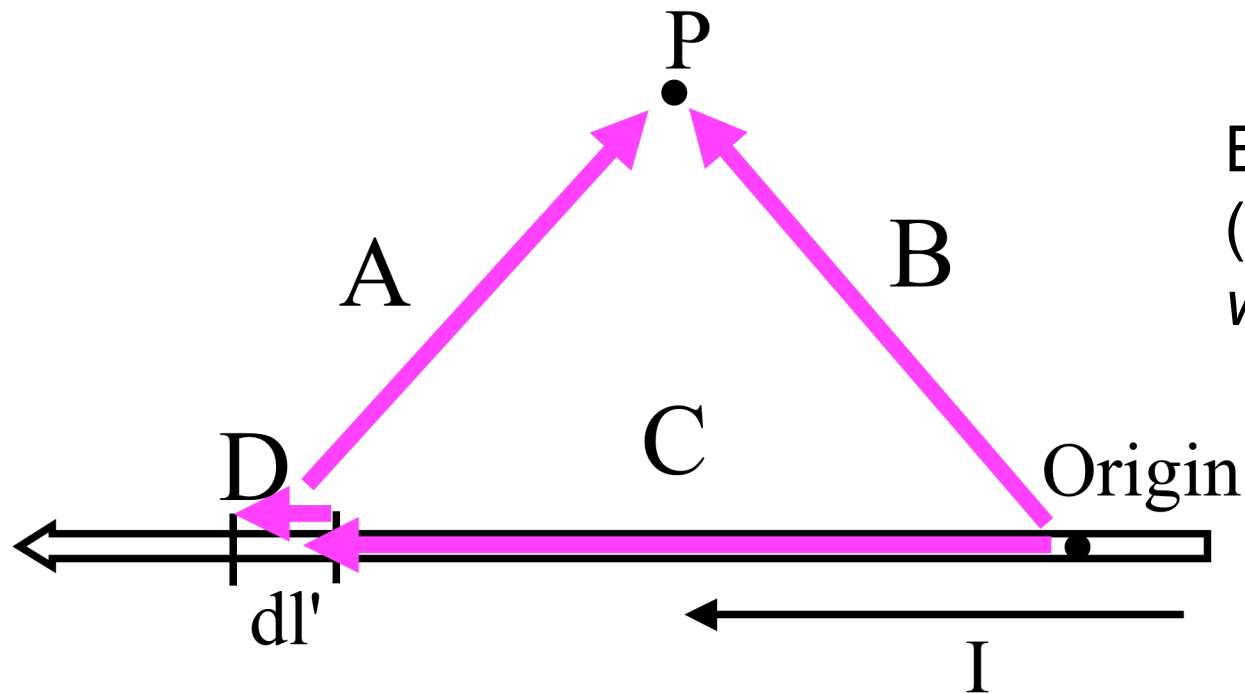


5.11 To find the vector potential at P due to a current-carrying wire we use

$$\vec{\mathbf{A}}(\vec{r}) = \frac{\mu_0}{4\pi} \int \frac{\vec{\mathbf{J}}(r') d\tau'}{|\mathbf{R}|} \quad \text{or} \quad \vec{\mathbf{A}}(\vec{r}) = \frac{\mu_0}{4\pi} \int \frac{\vec{\mathbf{I}}(r') dl'}{|\mathbf{R}|}$$

In the figure, with dl' shown, what is $\vec{\mathbf{R}}$?



E) None of these
(e.g, the arrow is the
wrong way!)