5.12 To find the magnetic field B at P due to a current-carrying wire we use the Biot-Savart law,

$$\vec{B}(\vec{r}) = \frac{\mu_0}{4\pi} I \int \frac{\vec{dl} \times \hat{\mathcal{R}}}{\mathcal{R}^2}$$

What is the *direction* of the infinitesimal contribution d**B**(P) created by current in d**l**?

A) Up the page

B) Directly away from d**l**
   (in the plane of the page)

C) Into the page

D) Out of the page

E) Some other direction

P

Origin

dl

I