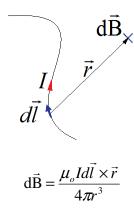
## Physics II

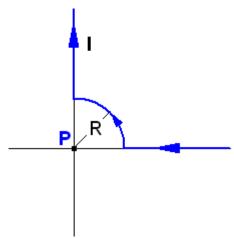
## **Biot and Savart**



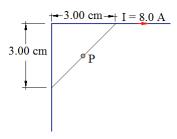
**Problem 1.-** Use the results of Biot and Savart law to find the magnetic field produced at the origin by the sets of coils shown in the figures:



**Problem 2.-** Calculate the magnetic field at point "P" due to the wire shown in the figure, which transports a current I.



**Problem 3.-** Calculate the magnetic field at P (in the middle of the segment shown) produced by the long wire that carries 8.0 A.



**Problem 4.-** In an ID circuit you have a conductor in the shape of a right triangle as shown in the figure. Find the magnetic field in direction and magnitude at point P if the circulating current is 2.4mA.

