

## Magnetic Field Application (3)



Two semi-infinite straight wires are connected to a segment of circular wire in three different ways. A current  $I$  flows in the direction indicated.

- (a) Find the direction ( $\odot$ ,  $\otimes$ ) of the magnetic fields  $\vec{B}_1, \vec{B}_2, \vec{B}_3$ .
- (b) Rank the magnetic fields according to strength.

