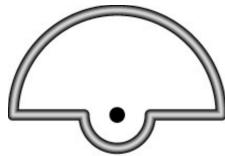
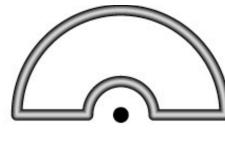


Activity 8, March 11, 2009

The figure shows three circuits consisting of concentric circular arcs (either half- or quarter-circles of radii r , $2r$, and $3r$) and radial lengths. The circuits carry the same current. Rank them according to the magnitude of the magnetic field produced at the center of curvature (the dot), greatest first:



(a)



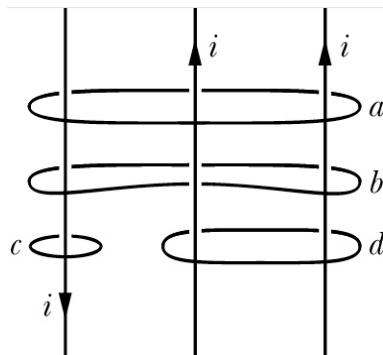
(b)



(c)

Activity 8, March 11, 2009

The figure shows three equal currents i (two parallel, and one anti-parallel) and four Amperian loops. Calculate the magnitude of i_{enc} along each.



(a)

(b)

(c)

(d)