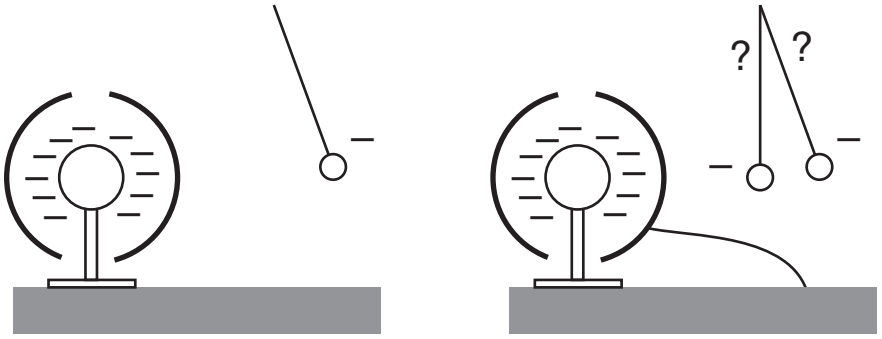
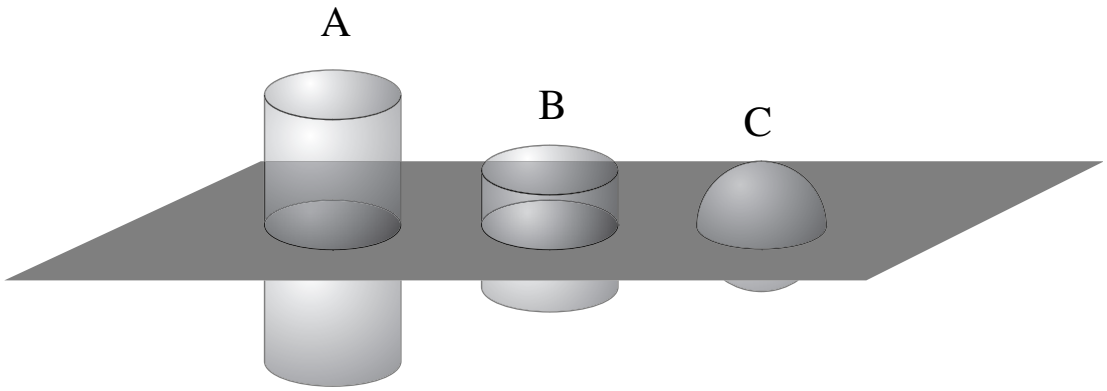
When a negatively charged object is placed inside an uncharged hollow conductor, a negatively charged pith ball is repelled by the arrangement (see a). The uncharged hollow conductor is now grounded (see b). What happens to the pith ball?



(*a*) (*b*)

1. It stays where it is
2. It is repelled more
3. It is repelled less
4. It is no longer repelled
5. It is attracted to the conductor

Three gaussian surfaces intersect a surface carrying a uniformly distributed charge. Cylinders A and B and sphere C all have the same radius *R*. The height of A is 2*R*, that of B is *R*.



Rank the three surfaces according to increasing electric flux through them

1. A > B > C
2. A = B > C
3. A = B = C
4. C > A = B
5. None of the above.