```
Each of three charged spheres of dare dius che conducting, one having a uniform charge den-
                                                                                                                                                                                                                  Each
                                den-
sity
within
its
vol-
ume,
                                       and
one
hav-
ing
a
spher-
                                cally symmetric charge density that varies dialy as r^n
                                                           -3),
                                has a to-
tal charge
Q. Use Gauss's the-
rem to ob-
tain the elec-
tric fields both in-
side and out-
side each sphere.
Sketch the be-
hav-
ior of the fields a func-
tion of the first two spheres, and for the third with in-
the third in-
th
```