

A point charge of 20 nC is located at $(4, -1, 3)$, and a uniform line charge of -25 nC/m lies along the intersection of the planes $x = -4$ and $z = 6$.
(a) Calculate \mathbf{D} at $(3, -1, 0)$. (b) How much electric flux leaves the surface of a sphere of radius 5 , centered at the origin? (c) Repeat part *b* if the radius of the sphere is 10 .