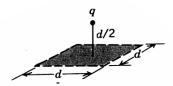
Name:

Physics 51 Homework #3 September 8, 2016

27-E7, 27-E8

27-E7 A point charge +q is a distance d/2 from a square surface of side d and is directly above the center of the square as shown in Fig. 24. Find the electric flux through the square. (Hint: Think of the square as one face of a cube with edge d.)



1

27-E8 A butterfly net is in a uniform electric field E as shown in Figure 27-27. The rim, a circle of radius a, is aligned perpendicular to the field. Find the electric flux through the netting, relative to the outward normal.

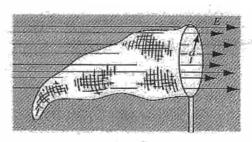


FIGURE 27-27. Exercise 8.