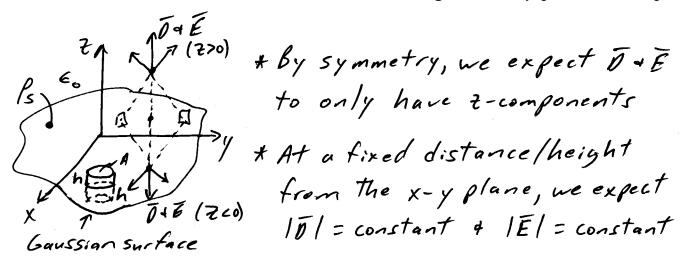
Example- Using Gauss' Law, find the electric flux density and electric field vectors due to an infinite sheet of uniform surface charge on the *x-y* plane in free space.



Based on these observations, select a cylinder who top + bottom @ == th and area A whose sides are orthogonal to x-y plane to be the Gaussian surface.

In general, for any infinite flat plane of uniform B_1 , $\overline{D} = \widehat{a_n} \frac{p_{s_2}}{2} + \overline{E} = \widehat{a_n} \frac{p_{s_2}}{260} \text{ where } \widehat{a_n} \text{ is surface normal to plane.}$