30. Let $\hat{\imath}$ be a unit vector pointing to the left. We use Eq. 24-13.

(a) To the left of the plates: $\vec{E} = (\sigma/2\varepsilon_0)\hat{\imath}$ (from the right plate)$+(-\sigma/2\varepsilon_0)\hat{\imath}$ (from the left one)$= 0$.

(b) To the right of the plates: $\vec{E} = (\sigma/2\varepsilon_0)(-\hat{\imath})$ (from the right plate)$+(-\sigma/2\varepsilon_0)(-\hat{\imath})$ (from the left one)$= 0$.

(c) Between the plates:

$$\begin{aligned} \vec{E} &= \left(\frac{\sigma}{2\varepsilon_0}\right)\hat{\imath} + \left(\frac{-\sigma}{2\varepsilon_0}\right)(-\hat{\imath}) = \left(\frac{\sigma}{\varepsilon_0}\right)\hat{\imath} \\ &= \left(\frac{7.0\times 10^{-22}\ \mathrm{C/m^2}}{8.85\times 10^{-12}\ \frac{\mathrm{N\cdot m^2}}{\mathrm{C^2}}}\right)\hat{\imath} = \left(7.9\times 10^{-11}\ \mathrm{N/C}\right)\hat{\imath}\ . \end{aligned}$$