Sketch a graph of $\mathrm{V}^{+}{ }_{\text {out }} \mathrm{vs} . \mathrm{V}_{\text {in }}$ and $\mathrm{V}^{-}{ }_{\text {out }}$ vs. $\mathrm{V}_{\text {in }}$ for the circuit shown in Figure 1. $\mathrm{R} 1=10 \mathrm{k}, \mathrm{R}=27 \mathrm{k}, \mathrm{A}_{1}$ is the $347 \mathrm{op}-\mathrm{amp}$, diode $=1 \mathrm{~N} 4148$.


