

The above circuit is used to amplify a signal from the AC source. The input signal which represents audio looks like figure 1 below. The output is distorted as can be seen in figure 2. Redesign this circuit so that its output matches figure 3. The Op Amp's source cannot be changed since only a single 15V source is available.

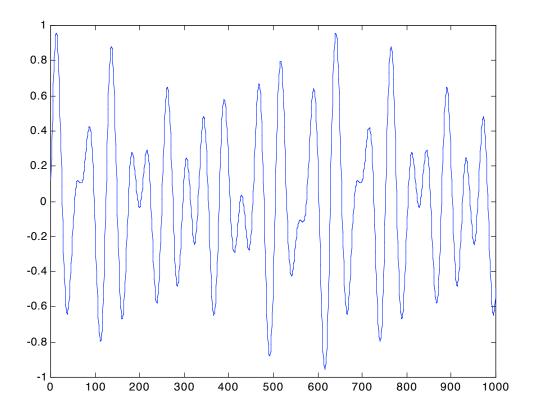


Figure 1: Amp Input

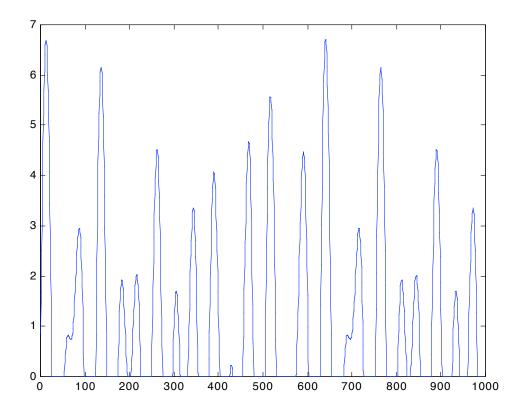


Figure 2: Amp Output

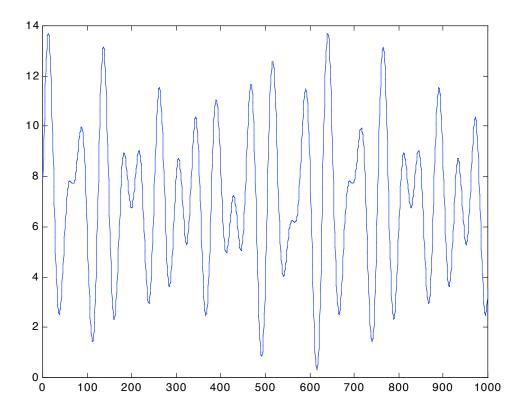


Figure 3: Corrected Amp Output