Simulate the circuit of Fig.1 using a run time of 50ms. Set the voltage across Co to -12V. Be careful of polarity.

Under Plot click on User Defined axes and
Set the X axis to (49.9ms:50ms.)
Set the Y axis to (-8V:16V)
Plot and copy the waveforms V(J1:d), V(J1:g), V(J1:s)

Set the Xaxis to (48ms:50ms)
Set the Y axis to (4V:20V)
Plot and copy V(J2:d).

Under X axis settings
Click on Fourier
Set the X axis to (47KHz:53KHz)
Set the Y axis to (0V:6V)
Plot and copy the spectrum of V(J2:d)
Choose R in the circuit of Fig.1 so that the collector current of Q2 is 20ua. Neglect base currents. The transistors are matched. Check your result using Spice with 2N2222 transistors.

\[ R = \]

Determine the collector current of Q2 in Fig.1 if R=500 ohms.