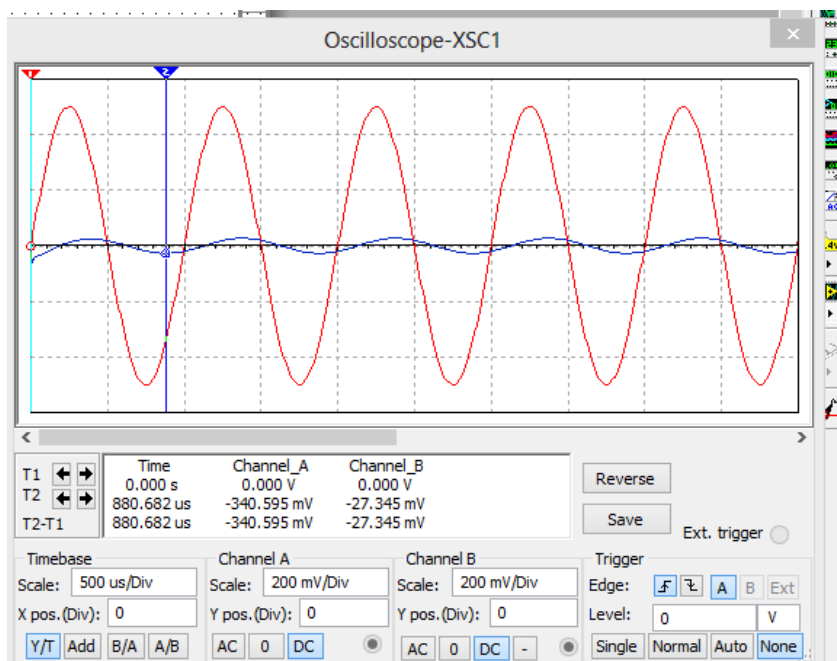
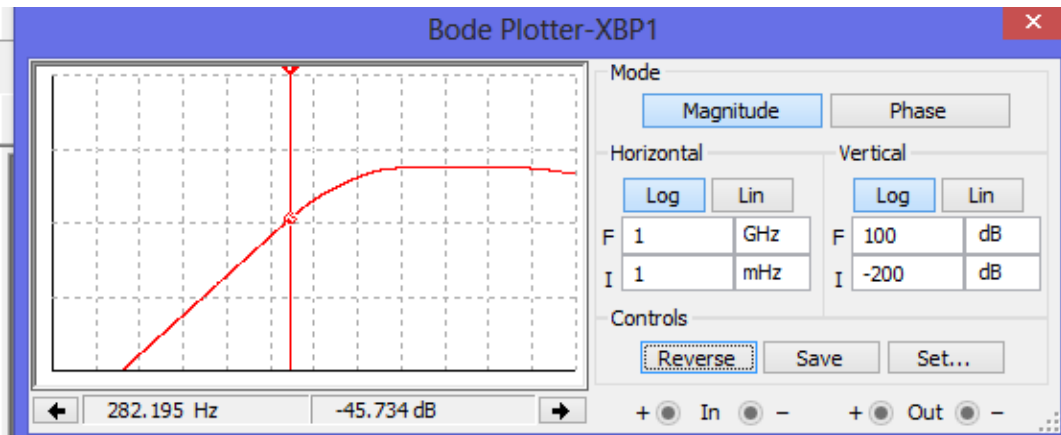


$$Z_{in} = (R1 \parallel R4) \parallel Z_{e-b} \approx 1K\Omega$$

$$Z_{e-b} = H_{fe} \cdot R_3$$

$$\text{Voltage gain} = \frac{R_2}{R_3}$$



Blue waveform amplitude should be approx.. 15x Red waveform amplitude.