

- 10-11** An amplifier has an input power of 4 mW and output power of 2 W. What is the power gain?
- 10-12** If an amplifier has a peak-to-peak output voltage of 15 V across a load resistance of $1\text{ k}\Omega$, what is the power gain if the input power is $400\text{ }\mu\text{W}$?
- 10-13** What is the current drain in Fig. 10-38?
- 10-14** What is the dc power supplied to the amplifier of Fig. 10-38?

SEC. 10-3 CLASS-A OPERATION

- 10-6** What is the dc collector resistance in Fig. 10-39?
- 10-7** In Fig. 10-39, what is the ac collector resistance? What is the ac saturation current?
- 10-8** What is the maximum peak-to-peak output in Fig. 10-39?
- 10-9** All resistances are doubled in Fig. 10-39. What is the ac collector resistance?
- 10-10** All resistances are tripled in Fig. 10-39. What is the maximum peak-to-peak output?
- 10-15** The input signal of Fig. 10-38 is increased until maximum peak-to-peak output voltage is across the load resistor. What is the efficiency?
- 10-16** What is the quiescent power dissipation in Fig. 10-38?
- 10-17** What is the current drain in Fig. 10-39?
- 10-18** What is the dc power supplied to the amplifier of Fig. 10-39?
- 10-19** The input signal of Fig. 10-39 is increased until maximum peak-to-peak output voltage is across the load resistor. What is the efficiency?
- 10-20** What is the quiescent power dissipation in Fig. 10-39?
- 10-21** If $V_{BE} = 0.7\text{ V}$ in Fig. 10-40, what is the dc emitter current?
- 10-22** The speaker of Fig. 10-40 is equivalent to a load resistance of $3.2\text{ }\Omega$. If the voltage across the speaker is 5 V_{p-p} , what is the output power? What is the efficiency of the stage?
- 10-23** The ac load line of a Class-B push-pull emitter follower has a cutoff voltage of 12 V. What is the maximum peak-to-peak voltage?

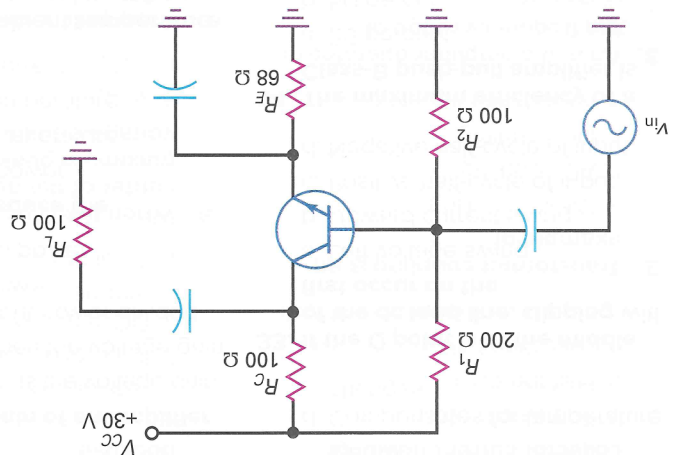


Figure 10-39

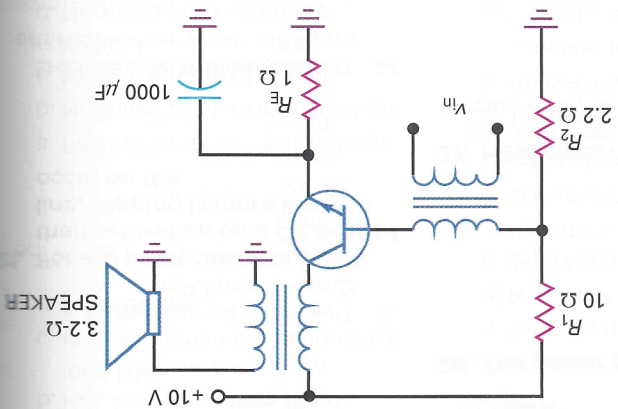


Figure 10-40

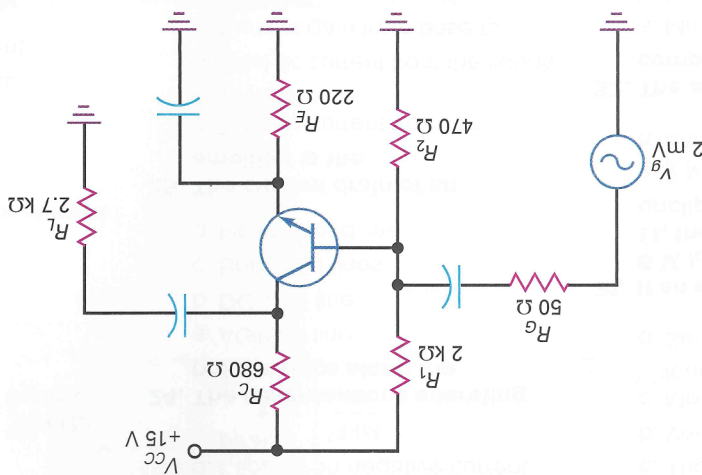


Figure 10-38