

Figure 3.103 For Prob. 3.67.

- 3.68** For the circuit in Fig. 3.104, find the gain v_o/v_s .

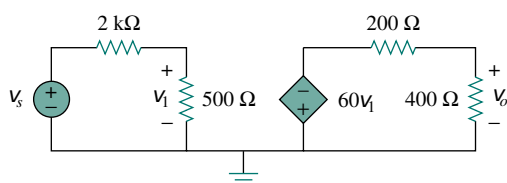


Figure 3.104 For Prob. 3.68.

- *3.69** Determine the gain v_o/v_s of the transistor amplifier circuit in Fig. 3.105.

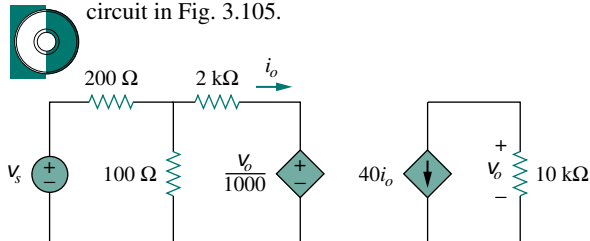


Figure 3.105 For Prob. 3.69.

- 3.70** For the simple transistor circuit of Fig. 3.106, let $\beta = 75$, $V_{BE} = 0.7$ V. What value of v_i is required to give a collector-emitter voltage of 2 V?

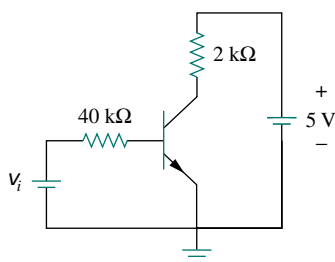


Figure 3.106 For Prob. 3.70.

- 3.71** Calculate v_s for the transistor in Fig. 3.107 given that $v_o = 4$ V, $\beta = 150$, $V_{BE} = 0.7$ V.

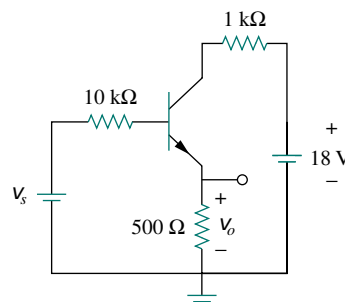


Figure 3.107 For Prob. 3.71.

- 3.72** For the transistor circuit of Fig. 3.108, find I_B , V_{CE} , and v_o . Take $\beta = 200$, $V_{BE} = 0.7$ V.

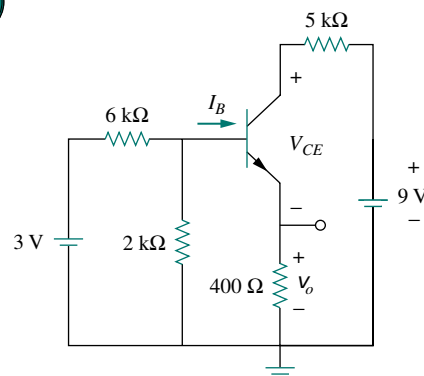


Figure 3.108 For Prob. 3.72.

- 3.73** Find I_B and V_C for the circuit in Fig. 3.109. Let $\beta = 100$, $V_{BE} = 0.7$ V.

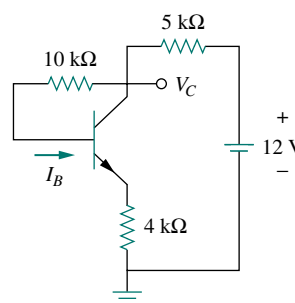


Figure 3.109 For Prob. 3.73.

COMPREHENSIVE PROBLEMS

- *3.74** Rework Example 3.11 with hand calculation.

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