Chapter 5, Problem 1.

The equivalent model of a certain op amp is shown in Fig. 5.43. Determine:

(a) the input resistance.
(b) the output resistance.
(c) the voltage gain in dB.

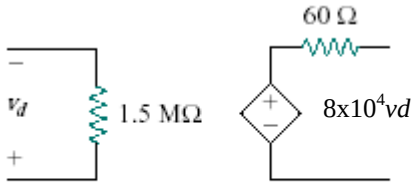

Figure 5.42 For Prob. 5.1.

Chapter 5, Problem 9.

Determine v_o for each of the op amp circuits in Fig. 5.48.

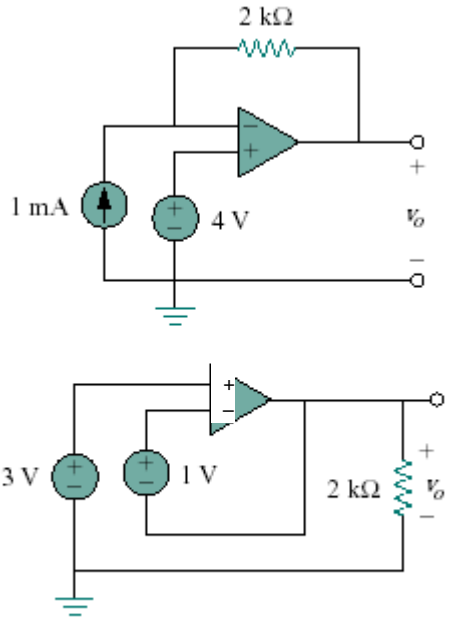

Figure 5.48 for Prob. 5.9

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Chapter 5, Problem 17.

Calculate the gain v_o/v_i when the switch in Fig. 5.56 is in:
(a) position 1 (b) position 2 (c) position 3

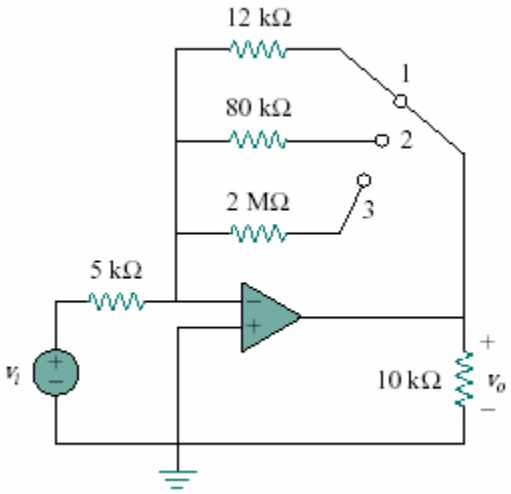

Figure 5.56

Chapter 5, Problem 34.

Given the op amp circuit shown in Fig. 5.72, express v_o in terms of v_1 and v_2.

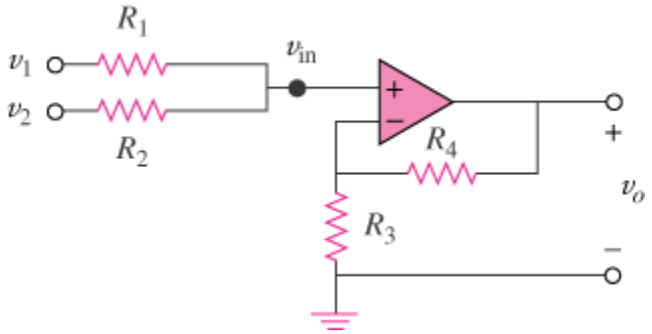

Figure 5.72

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Chapter 5, Problem 39.

For the op amp circuit in Fig. 5.76, determine the value of v_2 in order to make v_o = -16.5 V.

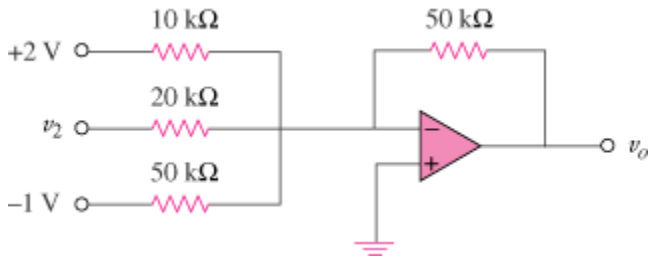

Figure 5.76

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