

- 4-9 Determine the gain of the amplifier in Fig. P4.9. What is the value of I_o ?

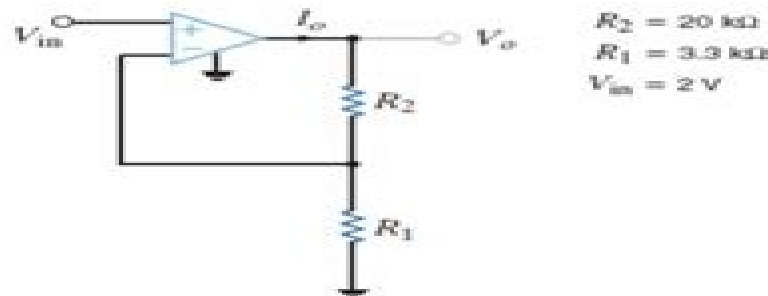
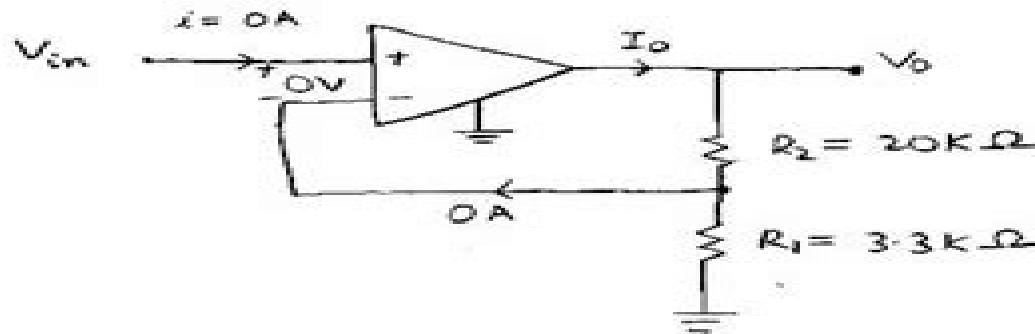


Figure P4-9

SOLUTION:



Non-inverting configuration:

$$\frac{V_o}{V_{in}} = 1 + \frac{R_2}{R_1}$$

$$\frac{V_o}{V_{in}} = 1 + \frac{20 \times 10^3}{3.3 \times 10^3}$$

$$\frac{V_o}{V_{in}} = 7.06$$

$$\text{for } V_{in} = 2 \text{ V}$$

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John Wiley & Sons Ltd, J. David Irwin



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Basic Engineering Circuit Analysis J. David Irwin, Robert M. Nelms, 2010-11-01 Maintaining its accessible approach to circuit analysis the tenth edition includes even more features to engage and motivate engineers Exciting chapter openers and accompanying photos are included to enhance visual learning The book introduces figures with color coding to significantly improve comprehension New problems and expanded application examples in PSPICE MATLAB and LabView are included New quizzes are also added to help engineers reinforce the key concepts

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Real-Time Environmental Monitoring Miguel F. Acevedo, 2018-10-08 The natural environment is complex and changes continuously at varying paces Many like the weather we notice from day to day However patterns and rhythms examined over time give us the bigger picture These weather statistics become climate and help us build an understanding of the patterns of change over the long term Real Time Environmental Monitoring Sensors and Systems introduces the fundamentals of environmental monitoring based on electronic sensors instruments and systems

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Irwin "Just Ask" Student Learning Guide John Wiley & Sons Ltd, J. David Irwin, 2002-12-20

Analysis of Electrical Circuits with Variable Load Regime Parameters A. Penin, 2015-04-07 This book introduces electric circuits with variable loads and voltage regulators It allows to define invariant relationships for various parameters of regime and circuit sections and to prove the concepts characterizing these circuits Generalized equivalent circuits are introduced Projective geometry is used for the interpretation of changes of operating regime parameters Expressions of normalized regime parameters and their changes are presented Convenient formulas for the calculation of currents are given Parallel voltage sources and the cascade connection of multi port networks are described The two value voltage regulation characteristics of loads with limited power of voltage source is considered The book presents the fundamentals of electric circuits and develops circuit theorems It is useful to engineers researchers and graduate students who are interested in the basic electric circuit theory and the regulation and monitoring of power supply systems

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Schaum's Outline of Electronic Devices and Circuits, Second Edition Jimmie J. Cathey, 2002-02-22 This

updated version of its internationally popular predecessor provides and introductory problem solved text for understanding fundamental concepts of electronic devices their design and their circuitry Providing an interface with Pspice the most widely used program in electronics new key features include a new chapter presenting the basics of switched mode power supplies thirty one new examples and twenty three PS solved problems **Integral Transforms and Engineering** Abdon

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