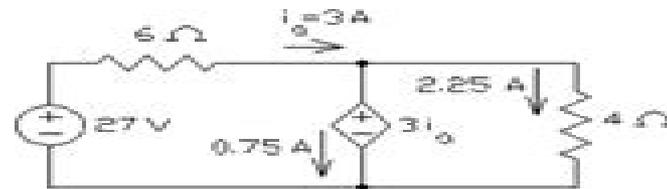


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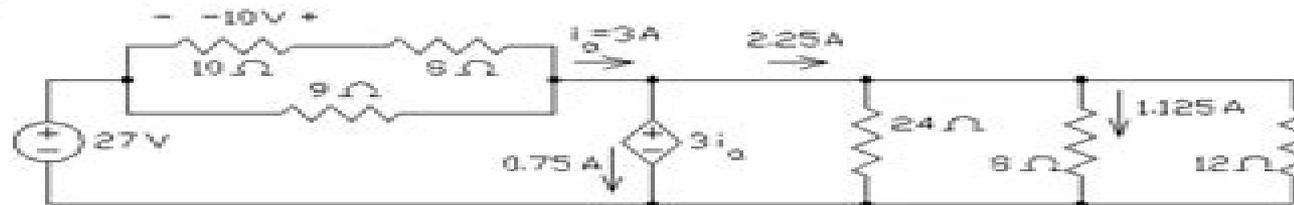
(a)  $\frac{1}{R_2} = \frac{1}{24} + \frac{1}{12} + \frac{1}{8} \Rightarrow R_2 = 4\Omega$  and  $R_1 = \frac{(10+8) \cdot 9}{(10+8)+9} = 6\Omega$

(b)



First, apply KVL to the left mesh to get  $-27 + 6i_o + 3i_o = 0 \Rightarrow i_o = 3\text{ A}$ . Next, apply KVL to the right mesh to get  $4i_o - 3i_o = 0 \Rightarrow i_o = 2.25\text{ A}$ .

(c)



$$i_o = \frac{\frac{1}{8}}{\frac{1}{24} + \frac{1}{8} + \frac{1}{12}} 2.25 = 1.125\text{ A} \quad \text{and} \quad v_o = -(10) \left[ \frac{9}{(10+8)+9} 3 \right] = -10\text{ V}$$

# Introduction To Electric Circuits 9th Edition Solution

**AN Whitehead**



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**Electrical Circuits: A Primer** JC Olivier, 2018-03-31 This new resource provides a comprehensive and concise introduction of the underpinnings and fundamentals of electrical circuits Models the limitations of models and examples are clearly explained The book examines circuits with static sources and explains how to reduce any circuit to a system of linear equations Moreover the book presents dynamic sources that exhibit transient phenomena that require the solution of linear differential equations MATLAB code is used throughout the book to help solve key problems and assist engineers in the field Additionally this hands on volume explores circuits with sinusoidal sources also known as the AC paradigm The book provides another key mathematical tool known as a phasor which are mathematical objects based on complex number theory The book emphasizes solutions for computing power interpreting power and energy and compensating electrical systems if the power factor is too low Professionals are offered design guidance throughout the book with many real world examples

*ODE, BVP, and 1D PDE Solvers for Scientific and Engineering Problems With MATLAB Basics* Burstein, Leonid, 2025-02-06 In the academic field engineers scientists educators and students are faced with a persistent challenge the gap between theoretical knowledge and practical implementation in solving real world engineering problems The scarcity of focused resources tailored to mastering MATLAB and its specialized solvers for Ordinary Differential Equations ODEs and One Dimensional Partial Differential Equations 1D PDEs has left many individuals struggling to bridge this educational chasm The disconnect between the theory learned in the classroom and the ability to effectively address engineering challenges in the real world has become a significant hurdle The definitive solution to the academic conundrum of this lack of a focused resource is the book ODE BVP and 1D PDE Solvers for Scientific and Engineering Problems with MATLAB Basics which draws on years of teaching experience This groundbreaking book provides a structured and holistic learning path designed to empower both novice learners and seasoned professionals It takes readers on a comprehensive journey commencing with the fundamentals of MATLAB software and culminating in the mastery of its application in solving ODEs and 1D PDEs for a broad range of engineering problems

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