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Solution: According to Eq. (2.2), $R = r' A$: From Table 2-1, the resistivity of carbon is $r = 1:4 \cdot 10^5 \text{ W}\cdot\text{m}$; and the cross-sectional area of the wire is $A = \pi d^2 / 4 = \pi (0:5 \cdot 10^{-3})^2 / 4 = 7:85 \cdot 10^{-7} \text{ m}^2$; Hence, $R = 1:4 \cdot 10^5 \cdot 10 \cdot 10^{-7} = 1:4 \cdot 10^{-1} = 0:14 \text{ }\Omega$; and from $P = I^2 R = I^2 \cdot 0:14 = 1:78 \text{ W}$; and from $P = I^2 R = I^2 \cdot 1:78 = 1:06 \text{ A}$: Fawwaz T. Ulaby, Michel M. Maharbiz and Cynthia M. Furse Circuits c 2015 National Technology Press

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Solution: (a) $100\text{e}az=10 \cdot 100\text{e}0:5z=10 \cdot \text{e}0:5z=\text{e}0:1 \cdot 0:5z=\ln0:1 = 2:3$; $z=4:6 \text{ m}$; (b) $100\text{e}0:5z=1 = \ln0:01$; $0:5 = -9:2 \text{ m}$; (c) $100\text{e}0:5z=106$. $z = \ln108$. $0:5 = -37 \text{ m}$: Fawwaz T. Ulaby and Umberto Ravaioli, Fundamentals of Applied Electromagnetics c 2015 Prentice Hall. Exercise 1.7 Express the following complex functions in polar form: z.

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For use in an introductory circuit analysis or circuit theory course, this text presents circuit analysis in a clear manner, with many practical applications. It demonstrates the principles, carefully explaining each step.

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Fundamentals of Electric Circuits, 2e is intended for use in the introductory circuit analysis or circuit theory course taught in electrical engineering or electrical engineering technology departments. The main objective of this book is to present circuit analysis in a clear, easy-to-understand manner, with many practical applications to interest the student. Each chapter opens with either historical sketches or career information on a subdiscipline of electrical engineering. This is followed by an introduction that includes chapter objectives. Each chapter closes with a summary of the key points and formulas. The authors present principles in an appealing and lucid step-by-step manner, carefully explaining each step. Important formulas are highlighted to help students sort out what is essential and what is not. Many pedagogical aids reinforce the concepts learned in the text so that students get comfortable with the various methods of analysis presented in the text.

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