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Solution: (a) $100\mathbf{e}_z = 10$ $100\mathbf{e}_z = 10$ $\mathbf{e}_z = 0:1$
 $0:5z = \ln 0:1 = 2:3$ $z = 4:6$ m: (b) $100\mathbf{e}_z = 1$ $z = \ln 0:01$
 $0:5 = 9:2$ m: (c) $100\mathbf{e}_z = 106$. $z = \ln 108$. $0:5 = 37$ m:
Fawwaz T. Ulaby and Umberto Ravaioli, Fundamentals of Applied Electromagnetics c 2019 Prentice Hall.
Exercise 1.9 Express the following complex functions in polar form: z.

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Solution: (a) $100e^{az} = 10$ $100e^{0.5z} = 10$ $e^{0.5z} = 0.1$

$0.5z = \ln 0.1 = -2.3$ $z = -4.6$ m: (b) $100e^{0.5z} = 1$ $z = \ln 0.01$

$0.5z = -9.2$ $z = -18.4$ m: (c) $100e^{0.5z} = 106$. $z = \ln 106$. $0.5z = 4.66$ $z = 9.32$ m:

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Exercise 1.7 Express the following complex functions in polar form: z.

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Solution: (a) We start by converting the given expression into a cosine function of the form given by (1.17): $y(x;t) = 2\cos(4\pi t + 10\pi x)$ p 2 (cm): Since the coefficients of t and x both have the same sign, the wave is traveling in the negative x-direction. (b) From the cosine expression, $f = 2$.

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Fundamentals of Applied Electromagnetics Solution:
(a) From Example 1 – 4, $I \sim = V_e s R + j\omega L = 150 \ 400 + j105 \ 3 \ 10 \ 3 = 150 \ 400 + j300 = 0:3 \ 36:9 \ (A)$: (b)
 $i(t) = \text{Re}[e^{j\omega t}] = \text{Re}[0:3e^{j36:9} e^{j105t}] = 0:3\cos(105t\dots$

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