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Solution: (a)  $100\hat{e}_z = 10 \hat{e}_x + 10 \hat{e}_y$   $0.5z = 0.1$   $z = 0.2$  m: (b)  $100\hat{e}_z = 1 \hat{e}_x + 1 \hat{e}_y$   $0.5z = 0.01$   $z = 0.02$  m: (c)  $100\hat{e}_z = 106 \hat{e}_x + 106 \hat{e}_y$   $z = 108$  m:  $0.5z = 37$  m:

Fawwaz T. Ulaby and Umberto Ravaioli, Fundamentals of Applied Electromagnetics

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c 2019 Prentice Hall. Exercise 1.9 Express the following complex functions in polar form:  $z$ .

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Solution: (a)  $100e^{az} = 10 \cdot 100e^{0.5z} = 10 \cdot e^{0.5z} = 10 \cdot \ln 0.1 = 2.3 \cdot z = 4.6 \text{ m}$ : (b)  $100e^{0.5z} = 1 \cdot z = \ln 0.01 \cdot 0.5 = 9.2 \text{ m}$ : (c)  $100e^{0.5z} = 106 \cdot z = \ln 108 \cdot 0.5 = 37 \text{ m}$ :

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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,  $f = 0 = p = 2$ .

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Fundamentals of Applied Electromagnetics Solution: (a) From Example 1-4,  $\vec{I} = \vec{V} e^s$

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$R + j\omega L = 150 + j300 = 300 \angle 63.4^\circ \text{ } (\Omega)$   
 $i(t) = \text{Re}\{0.369 e^{j105t}\} = 0.369 \cos(105t) \text{ A}$

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Selected Publications Recent Articles. Ulaby, F. T., Y. Oh, and K. Sarabandi, "Relative Dielectric Constant of Vegetation," IEEE GRSS/RSCL, 2018. Ulaby, F. T., Y. Oh, and K. Sarabandi, "A Simple and Accurate Model for the Dielectric Constant of Vegetation," IEEE Transactions on Geoscience and Remote Sensing, 2018. ...

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