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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) $100e^{0.5z} = 1$ $z = \ln 0.01$

$0.5 = 9.2$ m: (c) $100e^{0.5z} = 106$. $z = \ln 108$. $0.5 = 37$ m:

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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) $100e^{0.5z} = 106$. $z = \ln 106$. $0.5z = 4.6$ $z = 9.2$ 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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(a) From Example 1-4, $\tilde{I} = V_e \text{ s } R + j\omega L = 150 \text{ 400} + j105 \text{ 3 } 10 \text{ 3} = 150 \text{ 400} + j300 = 0:3 \text{ 36:9 (A)}$: (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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