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Solution: (a)

$$100e^{az} = 10$$

$$100e^{0.5z} = 10$$

$$e^{0.5z} = 0.1 \quad 0.5z = \ln 0.1$$

$$z = 2 \ln 0.1 \quad z = -4.6 \text{ m} \quad \text{(b)}$$

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

$$z = -4 \text{ m} \quad \text{(c)}$$

$$100e^{0.5z} = 106 \quad z =$$

$$\ln 106 \quad z = 3.7 \text{ m}$$

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Exercise 1.9 Express
the following complex
functions in polar
form: z .

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Solution: (a)

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100eaz=10
100e0:5z=10
e0:5z=0:1 0:5z=ln0:1
= 2:3 z=4:6 m: (b)
100e0:5z=1 z= ln0:01
0:5 =9:2 m: (c)
100e0:5z=106. z=
ln108. 0:5 =37 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

$$(1.17): y(x;t)=2\cos$$
$$4\pi t+10\pi x \text{ p } 2 \text{ (cm):}$$

Since the coef?icients
of t and x both have

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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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Solution: (a) From
Example 1-4, $\tilde{I} = V_e$
 $s R + j\omega L = 150 \ 400 +$
 $j105 \ 3 \ 10 \ 3 = 150$

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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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