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$e^{0.5z} = 0.1$ $0.5z = \ln 0.1 = -2.3$ $z = -4.6$ m:

(b) $100e^{0.5z} = 1$ $z = \ln 0.01 \cdot 0.5 = -9.2$ m:

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

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

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Solution: (a) From Example 1-4, $\tilde{V} = V_s$
 $R + j\omega L = 150 + j105 \times 3 \times 10^{-3} = 150 + j315$
 $I = \frac{400}{150 + j315} = 0.3 \angle -36.9^\circ$ (A). (b)
 $i(t) = \text{Re}[I e^{j\omega t}] = \text{Re}[0.3 e^{-j36.9^\circ} e^{j10.5 t}] = 0.3 \cos(10.5 t - 36.9^\circ)$ (A).

Exercise 1.10 A phasor voltage is given by $\tilde{V} = j5$ V. Find $v(t)$. Solution:

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Solution: (a) We start by converting the given expression into a cosine function of the form given by (1.17): $y(x;t)=2\cos(4\pi t+10\pi x)$ (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

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expression, f. $0 = p = 2$.

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