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 $2:3$ $z=4:6$ m: (b) $100e^{0.5z}=1$ $z=\ln 0.01$ $0.5 = 9:2$ m: (c)
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 $2/3$ $z = 4/6$ m: (b) $100e^{0.5z} = 1$ $z = \ln 0.01$ $0.5 = 9/2$ m: (c)
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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 expression, $f = 2$.

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Example 1–4, $\Gamma = V_e / s R + j\omega L = 150 / 400 + j105 / 3 \cdot 10^{-3} = 150 / 400 + j300 = 0.375 + j0.369$ (A): (b) $i(t) = \text{Re}[e^{j\omega t}] = \text{Re}[0.3e^{j36.9^\circ} e^{j105t}] = 0.3\cos(105t - 36.9^\circ)$

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Selected Publications Recent Articles. Ulaby, F. T., Y. Oh, and K. Sarabandi, "Relative Dielectric Constant of Vegetation," IEEE GRSS/RSCS, 2018. Ulaby, F. T., Y ...

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