

## Fundamentals Of Applied Electromagnetics

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Exercise 1.4 The wave shown in red in Fig. E1.4 is given by  $u = 5\cos(2\pi t - 8)$ . Of the following four equations: (1)  $u = 5\cos(2\pi t - 8 - \pi/4)$ , (2)  $u = 5\cos(2\pi t - 8 + \pi/4)$ , (3)  $u = 5\cos(2\pi t - 8 - \pi/2)$ , (4)  $u = 5\sin(2\pi t - 8)$ , (a) which equation applies to the green wave?

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Exercise 1.6 An electromagnetic wave is propagating in the z-direction in a lossy medium with attenuation constant  $\alpha = 0.5 \text{ Np/m}$ .

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