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Solution: $\mathbf{H} = \mathbf{H}_1 + \mathbf{H}_2 = 0 \mathbf{z} \times \mathbf{y}$ (a) \mathbf{B}_1 is into the page ($-\hat{z}$) and \mathbf{B}_2 is out of the page ($+\hat{z}$). Since $|\mathbf{H}_1| = |\mathbf{H}_2|$ in magnitude, $B = 0$. $\mathbf{H} = 2B_1 \mathbf{z} \times \mathbf{y}$ (b) Both magnetic fields are into the page. Hence, $B = 2B_1 = 2\sqrt{2} B_1 \hat{z}$: Fawwaz T. Ulaby and Umberto Ravaioli, Fundamentals of Applied Electromagnetics c 2019 Prentice Hall

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Solution: (a) $100e^{az} = 10 \sqrt{10} e^{0.5z} = 10 e^{0.5z} = \ln 0.1 = 2.3 z = 4.6 \text{ m}$; (b) $100e^{0.5z} = 1 z = \ln 0.01 = 0.5 = 9.2 \text{ m}$; (c) $100e^{0.5z} = 106. z = \ln 108. 0.5 z = 37 \text{ m}$: Fawwaz T. Ulaby and Umberto Ravaioli, Fundamentals of Applied Electromagnetics c 2015 Prentice Hall. Exercise 1.7 Express the following complex functions in polar form: z .

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(ii) Rigorous Solution: By expanding the second term in (1.2), we have $A \cos \omega t + B(\cos \omega t \cos \theta - \sin \omega t \sin \theta) = 0$: Fawwaz T. Ulaby, Eric Michielssen, and Umberto Ravaioli, Fundamentals of Applied Electromagnetics c 2010 Prentice Hall

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