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## Fundamentals Of Electromagnetics For Electrical And Computer Engineering

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Electromagnetics is the subject having to do with electromagnetic

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fields. An electromagnetic field is made up of interdependent electric and magnetic fields, which is the case when the fields are varying with time, that is, they are dynamic. An electric field

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Solution: (a)  $100e^{az} = 10$   $100e^{0.5z} = 10$   $e^{0.5z} = 0.1$   $0.5z = \ln 0.1$   $z = 4.6$   
m: (b)  $100e^{0.5z} = 1$   $z = \ln 0.01$   $0.5z = -9.2$  m: (c)  $100e^{0.5z} = 106$ .  $z = \ln 108$ .  
 $0.5z = 37$  m: Fawwaz T. Ulaby and Umberto Ravaioli, Fundamentals of Applied Electromagnetics c 2019 Prentice Hall. Exercise 1.9 Express the following complex functions in polar form: z.

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*Fundamentals of Electric Fields - ScienceDirect*

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