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Solution: (a) $100e^{az} = 10$ $100e^{0.5z} = 10$ $e^{0.5z} = 0.1$
 $0.5z = \ln 0.1 = -2.3$ $z = -4.6$ m: (b) $100e^{0.5z} = 1$ $z = \ln 0.01$
 $0.5 = -9.2$ m: (c) $100e^{0.5z} = 106$. $z = \ln 106$. $0.5 = 37$ m:
Fawwaz T. Ulaby and Umberto Ravaioli, Fundamentals
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Exercise 1.9 Express the following complex functions

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