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and magnetic fields,
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time, that is, they are
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 $100e^{0.5z} = 10$ $e^{0.5z} = 0.1$
 $0.5z = \ln 0.1 = -2.3$ $z = -4.6$
 m: (b) $100e^{0.5z} = 1$ $z =$
 $\ln 0.01$ $0.5z = -9.2$ m: (c)
 $100e^{0.5z} = 106$. $z = \ln 108$.
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