

1. On a lossless $50\text{-}\Omega$ transmission line terminated with a $Z_L = 100 - j100\ \Omega$. If this transmission line is be matched to the load using a shorted load stub. Determine the stub length and distance between the load and stub. Two possible answers. You only need to show one of them

2. On a lossless $50\text{-}\Omega$ transmission line terminated with a $Z_L = 100 + j100\ \Omega$. If this transmission line is be matched to the load using a open circuit transmission line. Determine the stub length and distance between the load and stub. Two possible answers. You only need to show one of them