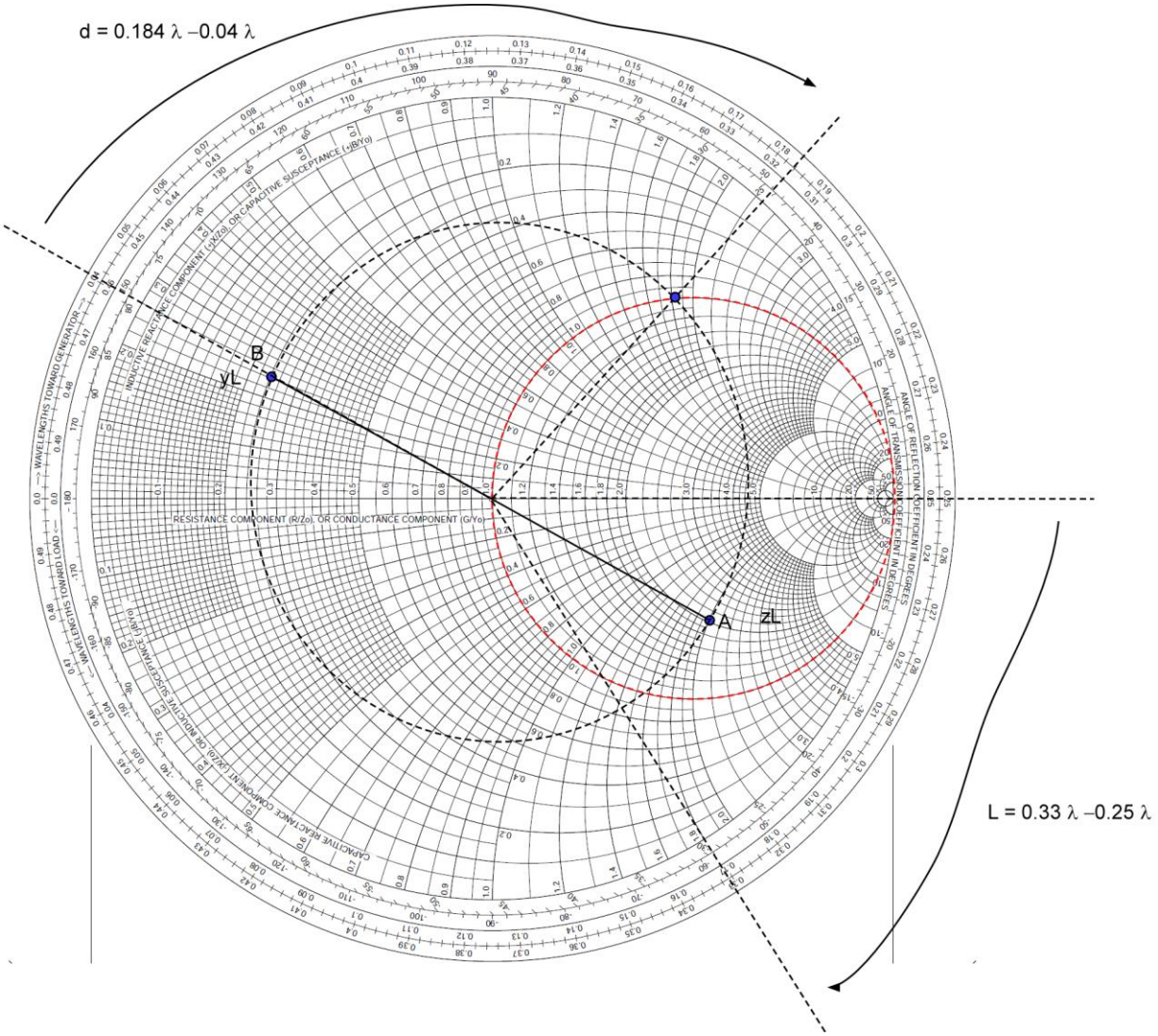
1. On a lossless 50-Ω transmission line terminated with a Z_L = 100-j100 Ω. If this transmission line is be matched to the load using a shorted load stub. Determine the stub length and distance between the load and stub. Two possible answers. You only need to show one of them



2. On a lossless 50-Ω 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