

Step 1, 2.

Smith Chart

$$\bar{Y}_L = 0.4 + j0.2$$

$$Y_1 = 0.4 + j0.2$$

$$Y_1' = 0.4 + j1.8$$

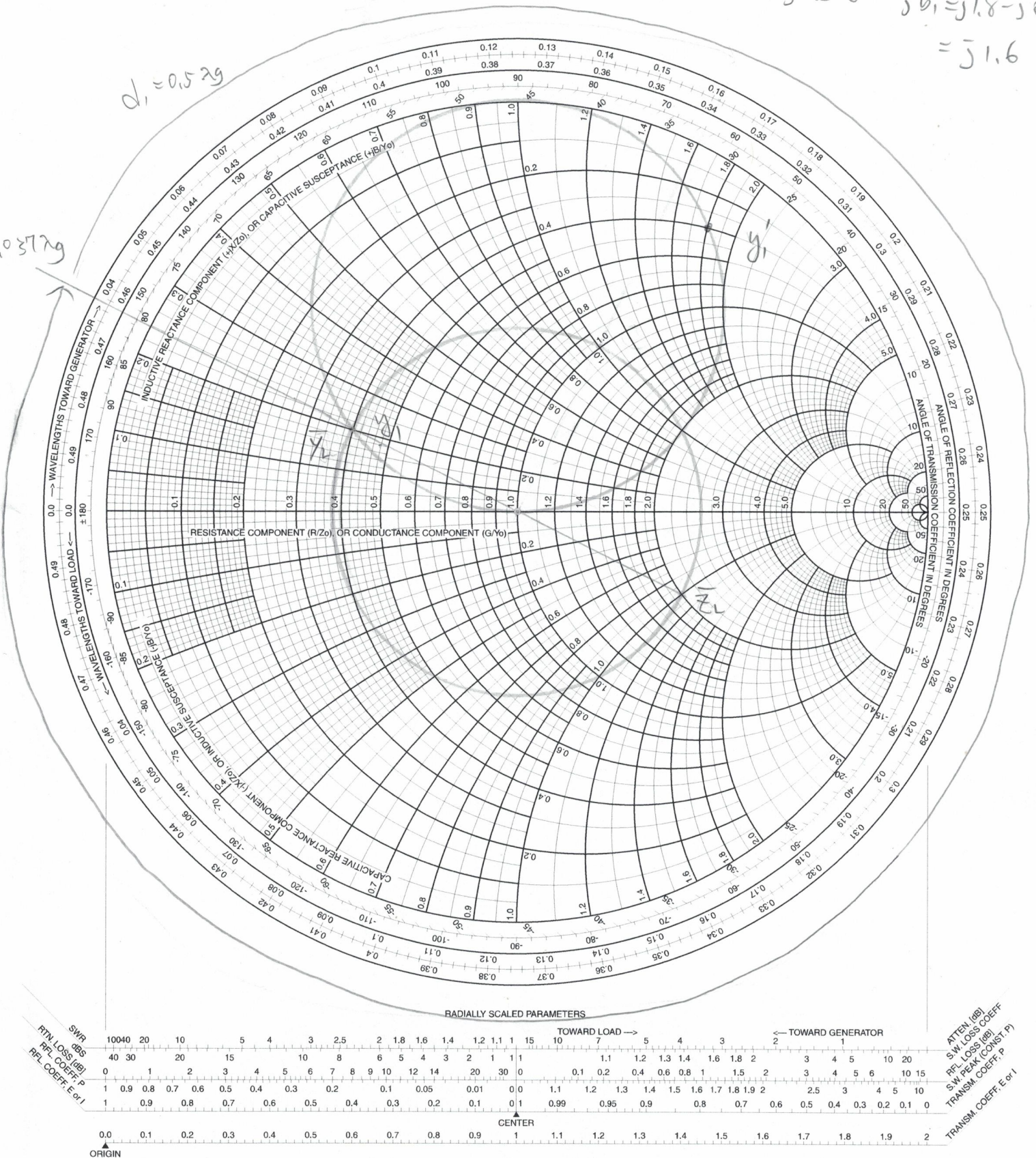
$$jB = j0.2 - j0.2 = 0$$

$$jB_1' = j1.8 - j0.2$$

$$= j1.6$$

$$d_1 = 0.57\lambda$$

$$0.037\lambda$$

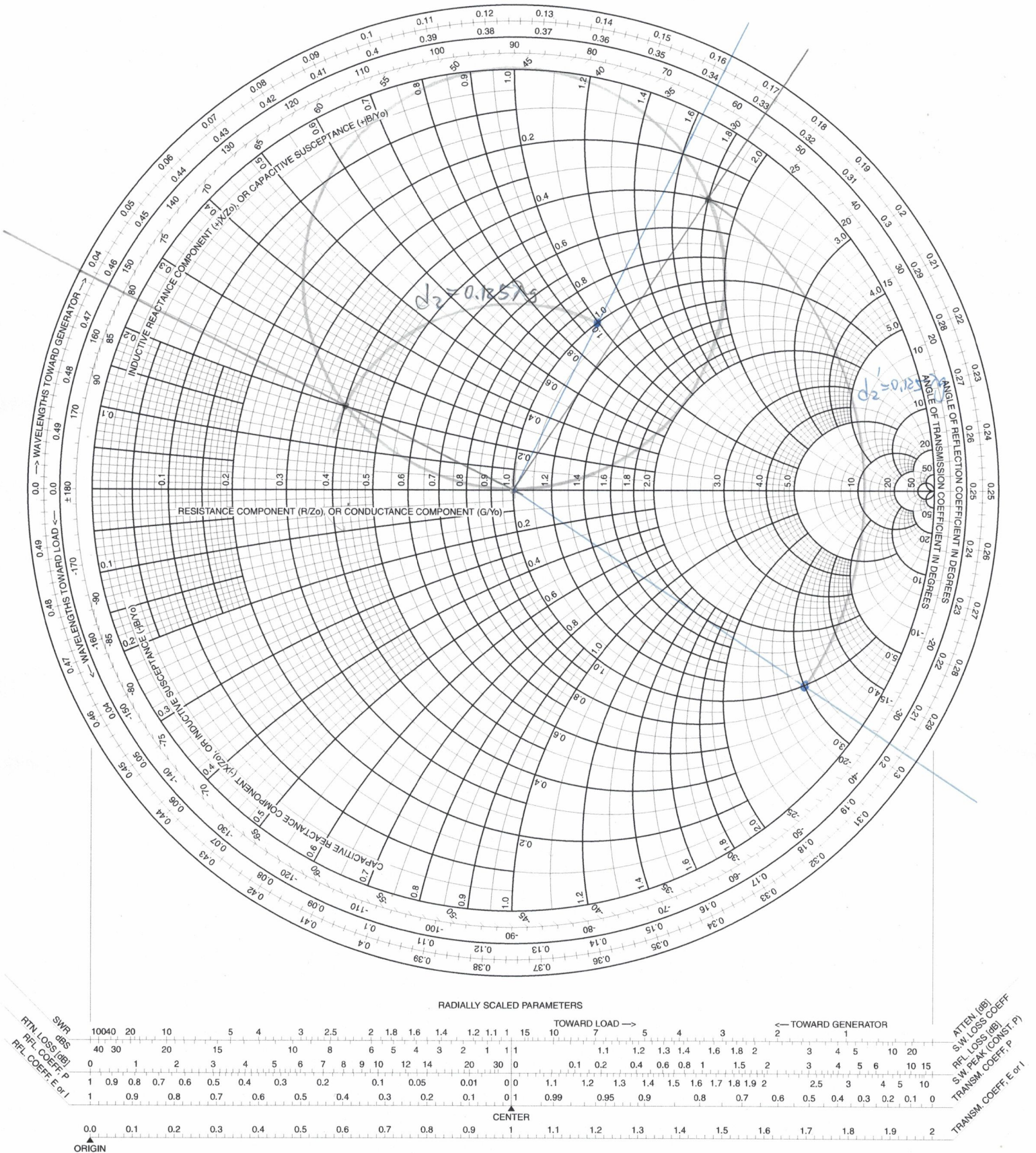


Step 3 & 4

Smith Chart

$$j b_2 = -j$$

$$j b_2' = j 3$$



Step 5 & 6

Smith Chart

