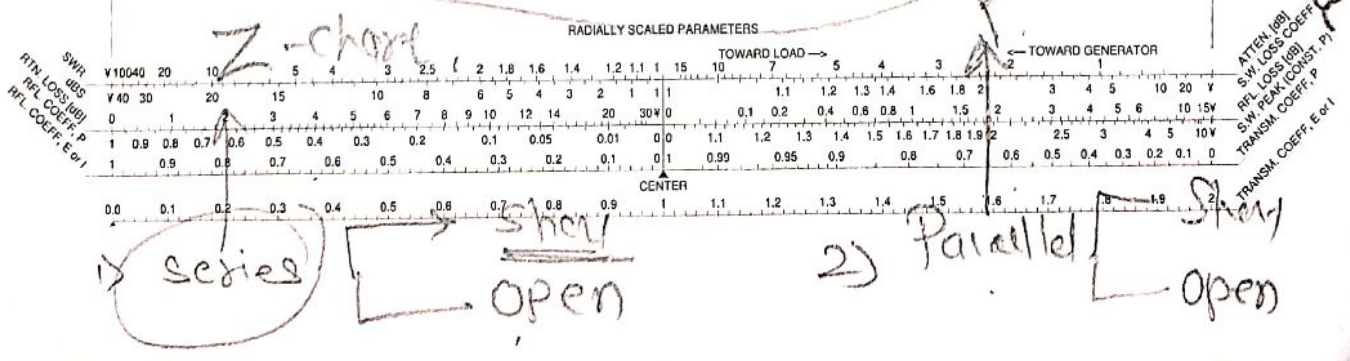
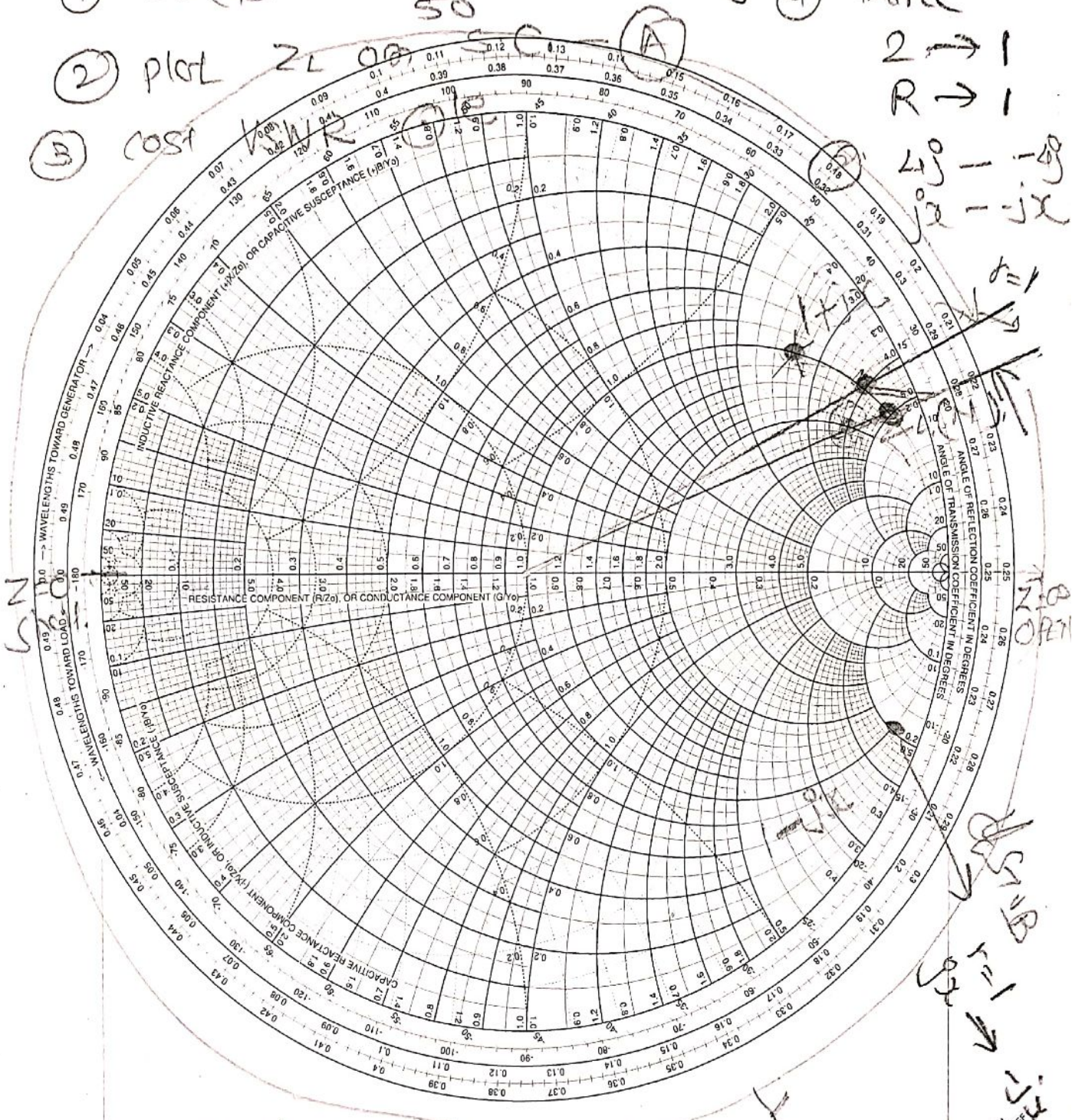


$LC \rightarrow 1 \mu H$      $Z_L = (100 + j200)\Omega$   
 $4C \rightarrow 1 \mu F$      $Z_0 = 50\Omega$

# The Complete Smith Chart (ZY)

①  $Z_L (N) = \frac{100 + j200}{50} = 2 + j4$     ④ Mark

- ② plot  $Z_L$  on  $SWR$  circle    ⑤  $2 \rightarrow 1$   
 $R \rightarrow 1$   
 ③  $\cos \theta = \frac{1}{V_{max}}$      $4j \rightarrow -4j$   
 $jx \rightarrow -jx$





$$Y_L = 0.5 - j2.9$$

$$Y_0 = 0.2$$

$$Y_{LN} = (0.5 - j2.9) \times Y_0$$

The Complete Smith Chart (ZY)

$$= 0.1 - j0.4j$$

② COM KSWR 0.1e

for stub

$Y_{LN}$

$Z=0$

$Y=0$

for stub

RADIALLY SCALED PARAMETERS

