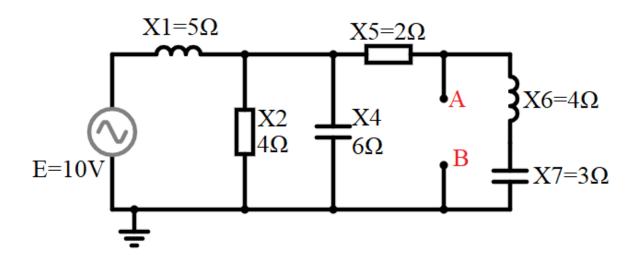
Uppgift 1

Draw Thevenin equation circuit for points A and B



## Uppgift 2

Find reactive power, real power and apparent power for elements X1, X2 and X3 if E=220V and 50Hz, power of X1 is 15kW with efficiency of 90%, power of X2 is 10kW with power factor  $\cos\theta$ =0.7 (inductive), and apparent power for X3 is 20kVA with power factor  $\cos\theta$ =0.8 (inductive). Find system's total reactive power, real power and apparent power. Determine a way to raise power factor to 0.95 and to 1.

