

Lecture 22  
questions

How does the orientation of the inductors affect transformer characteristics?

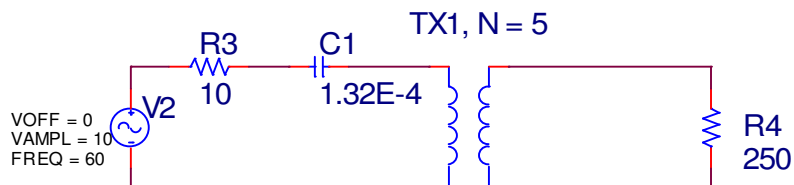
What is mutual inductance?

What is the coupling coefficient,  $k$ ?

What is the Tee model of mutual inductance?

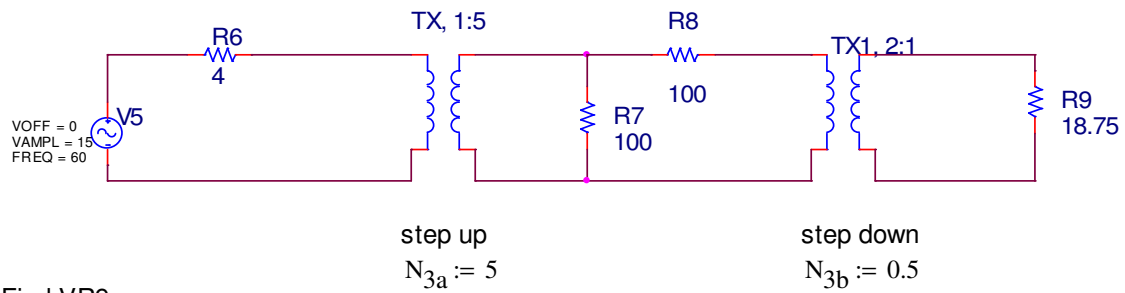
How do real transformers behave?

Review 2)



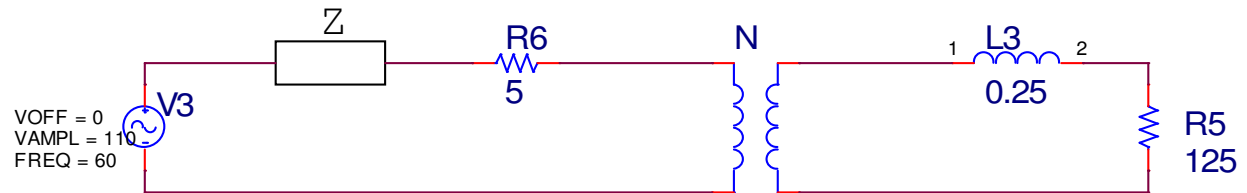
Determine  $I_{R4}$ .

Problem 1)



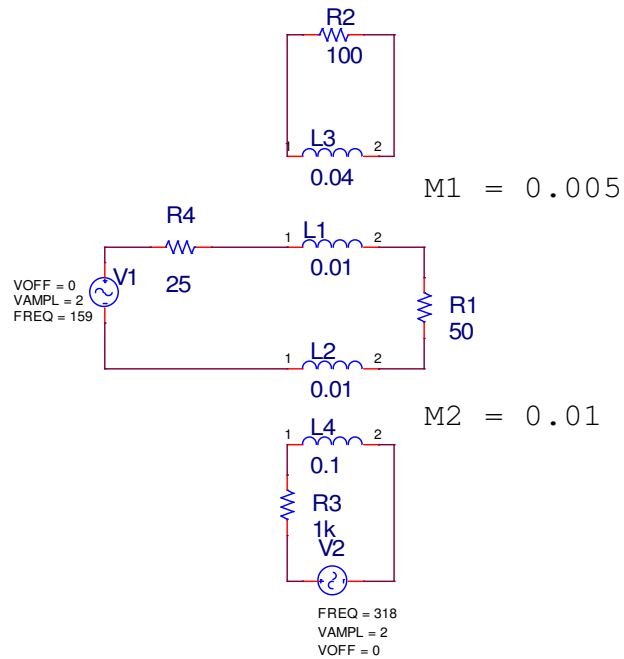
Find VR9

Problem 2) Impedance Matching



- a. Determine the winding ratio and the impedance  $Z$  such that the power delivered to the load is maximized relative to the source power.

Problem 3) Tee Model



Draw the tee model equivalent for the circuit above.

