

Indian Institute of Technology, Delhi
EEL 202: Circuit Theory
July 28, 2014

For the graphs shown below:

1. Determine a tree for the graph.
2. Write out the matrix equations for the fundamental cut-sets method.
3. Write out the matrix equations for the fundamental loops method.
4. Replace every branch of the tree with a 1-V voltage source, and every chord outside the tree with a 1-A current source. Show that $\sum v_{xy} i_{xy} = 0$.

