

Dr. Mohamed Bakr, EE2C15, 2007

Note Title

9/27/2007

Lecture 9

From Section 3.2 of Textbook

Solve E3.9 - E3.12, 3.85, 3.87, 3.89,
3.93, 3.95, 3.97

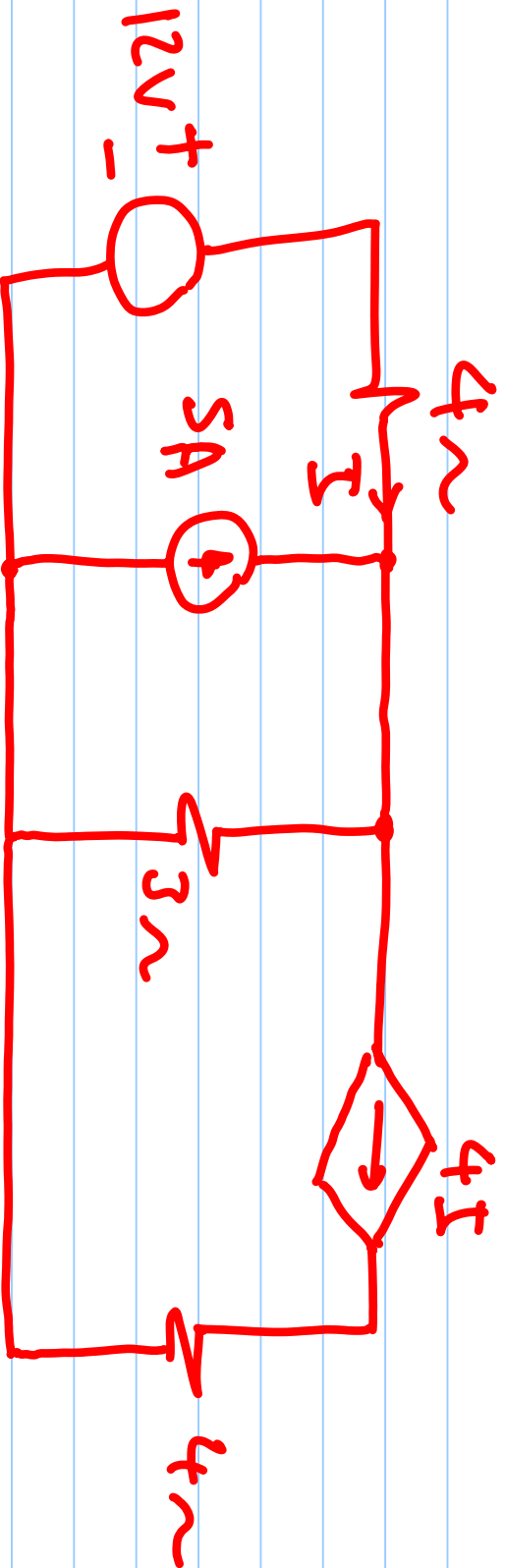
Loop Analysis with Dependent Source

* Dependent Sources usually simplify the analysis

* Currents in loops with VCCS and CCCS are equal to the dependent source

* The controlling variables are expressed in terms of nodal voltages

Example



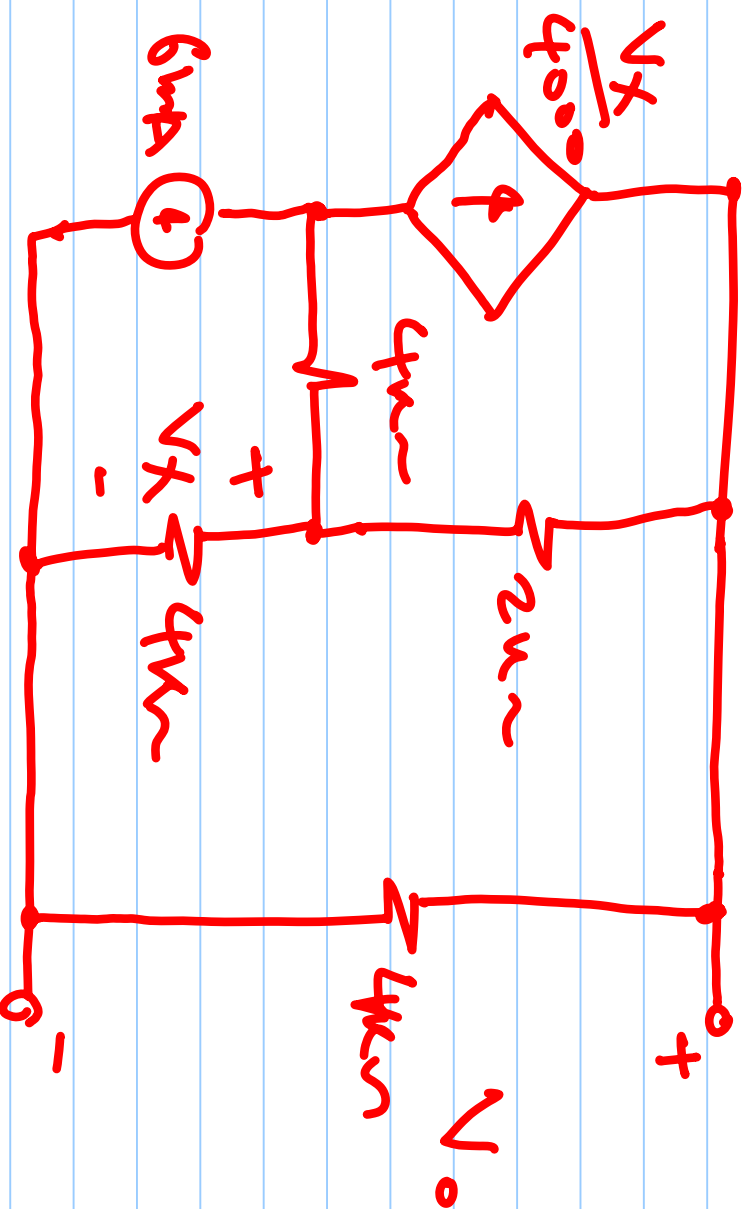
Use loop analysis to find the current in the 3Ω resistor, Verify your answer using nodal analysis

Example

Use Mesh

Analysis to

find V_o .



Verify your answer using nodal analysis.