Anouncement

- **Exam 2: Feb. 28** (closed book/notes, calculator allowed)
- **HW 4 (mesh analysis):** due next Wed. (Feb.23). Graded HW can be picked up from drop-in box near my office (20-307) on Friday
- **Extended office hour:** this Friday 10-12 pm (20-307)

Nodal vs. Mesh Analysis

Which Method do we choose?  
* **Nodal or Mesh Analysis?**

**Resistive Circuit**
- A circuit with fewer meshes than nodes
- Circuit contains many series-connected elements/ voltage sources/ supermeshes

**Method**
- Mesh Analysis
- Mesh Analysis

- A circuit with fewer nodes than meshes
- Circuit contains many parallel-connected elements/ current sources/ supernodes

**Method**
- Nodal Analysis
- Nodal Analysis

What information is required?
- Currents: Mesh Analysis
- Voltages: Nodal Analysis

Example

Find $P_{300\Omega}$

![Circuit Diagram](image)
Example

Find $V_0$

[Diagram of a circuit with voltages and currents labeled]