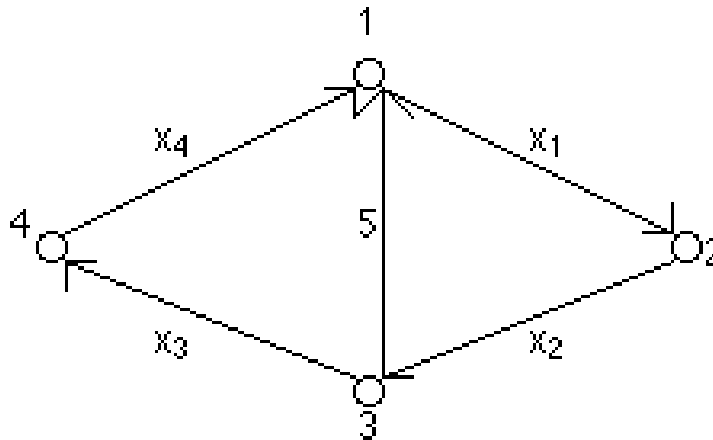


Group: _____ Present: _____

1. Set up and solve the following network problem:

Assumption: at each node, flow in = flow out.



Write the equations for each node (flow in = flow out, and then move all terms with variables to the left, all constant terms to the right)

Node 1: _____

Node 2: _____

Node 3: _____

Node 4: _____

Write down the augmented matrix for the system:

Augmented matrix:

$$\left(\begin{array}{ccc|c} & & & \\ & & & \\ & & & \\ & & & \end{array} \right)$$

Now solve the system by hand, using Gaussian elimination.

(Use back of paper)

Solution set: _____