Edge-Node Incident Matrix

To analyse a network (especially big ones), we associate with the network a matrix, the **edge-node incident matrix**, and use a computer to study it with methods from linear algebra. For the example here that matrix is



Rules:

- -1 in position *ij* indicates that edge *i* points 'out of' node *j*
- +1 in position *ij* indicates that edge *i* points 'into' node *j*
- 0 in position *ij* indicates that edge *i* points neither 'into nor out of' node *j*