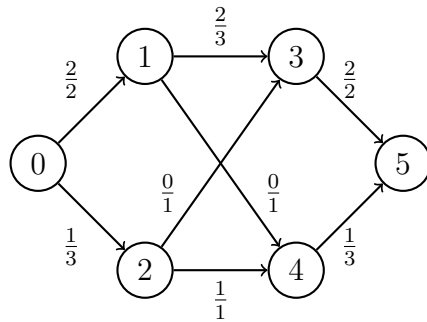


Flow/Residual Network Worksheet

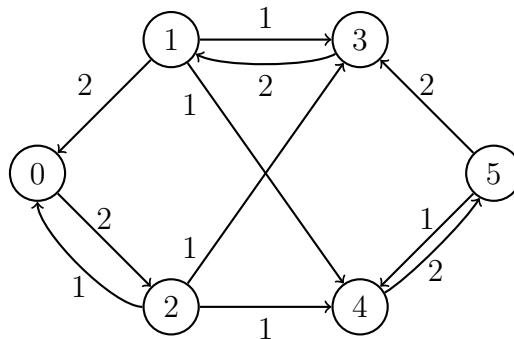
The table below shows the capacity and flow for each directed edge in a flow network with source 0 and sink 5.

Directed edge	capacity	flow
(0,1)	2	2
(0,2)	3	1
(1,3)	3	2
(1,4)	1	0
(2,3)	1	0
(2,4)	1	1
(3,5)	2	2
(4,5)	3	1

1. Draw the flow network.
The fractions represent flow over capacity.



2. Draw the residual network.



3. Identify an augmenting path from the source to the sink in the residual network.
 $0 \rightarrow 2 \rightarrow 3 \rightarrow 1 \rightarrow 4 \rightarrow 5$