## Problem Set 7: The Network Simplex Algorithm

Draw the network and solve the network transhipment problem

min  $c^T x$  subject to  $Ax = b, \ 0 \le x$ 

with

using the network simplex algorithm and the following 3 choices for b and c.

$$\begin{array}{ll} (1) & b = [-2,-1,2,-6,1,0,3,3]^T, \ c = [3,1,0,0,1,2,4,2,3,1,1,0]^T \\ (2) & b = [-2,-1,2,-6,1,0,3,3]^T, \ c = [2,1,-3,1,1,-2,4,2,3,1,2,4]^T \\ (3) & b = [-3,1,3,-1,2,0,-3,1]^T, \ c = [3,1,0,0,1,2,4,2,3,1,1,0]^T \end{array}$$