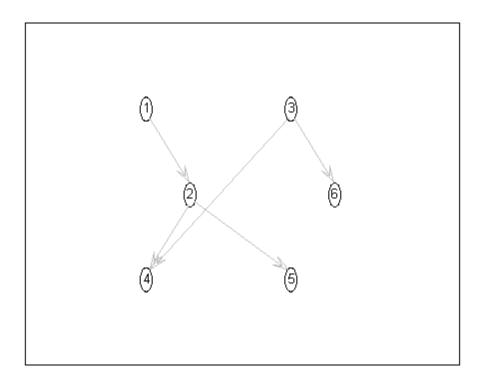
```
clear all
False = 1;
True = 2i
x^{2} + e^{\pi i}
N = 6;
dag=zeros(N,N);
PT = 1; HO = 2; BT = 3; HA = 4; SA = 5; PX = 6;
dag(PT, HO) = 1;
dag([HO BT], HA) = 1;
dag(HO, [SA HA]) = 1;
dag(BT, [HA PX]) = 1;
discrete_nodes=1:N;
node_sizes=2*ones(1,N);
bnet=mk_bnet(dag,node_sizes,'names',{'PT','HO','BT','HA','SA','PX'},'discrete',dis
bnet.CPD{PT}=tabular_CPD(bnet,PT,[0.8,0.2]);
bnet.CPD{BT}=tabular_CPD(bnet,BT,[0.999,0.001]);
bnet.CPD\{HO\}=tabular_CPD(bnet, HO, [1, 0.3, 0, 0.7]);
bnet.CPD(HA)=tabular_CPD(bnet, HA, [0.98, 0.3, 0.1, 0.1, 0.02, 0.7, 0.9, 0.9]);
bnet.CPD{SA}=tabular_CPD(bnet,SA,[0.9,0.2,0.1,0.8]);
bnet.CPD{PX}=tabular_CPD(bnet,PX,[0.99,0.02,0.01,0.98]);
draw_graph(dag)
engine=jtree_inf_engine(bnet);
evidence=cell(1,N);
evidence{PX}= True;
%evidence{BT}= True;
[engine,loglik]=enter_evidence(engine,evidence);
m=marginal_nodes(engine, BT);
m.T(2)
        ans =
            0.2833
                       0.3833
                                 0.6167
                                            0.2833
                                                      0.6167
                                                                 0.7167
        ans =
            0.0893
```

1



Published with MATLAB® R2014a