```
Y = xlsread('kron.xlsx');
nbus = length(Y);
n = nbus;
Y_new = zeros(nbus,nbus);
p = 1;
i = 1;
while( p< n )</pre>
for j = 1:nbus
    for k = 1:nbus
        if j==i || k==i
           Y_new(j,k) = 0;
        else
            Y_{new}(j,k) = Y(j,k) - ((Y(j,i)*Y(i,k))/Y(i,i));
        end
    end
end
fprintf('%dth bus reduction \n',p);
Y_{new}(:,i) = [];
Y_{new}(i,:) = [];
Y = Y_new;
nbus = nbus - 1;
p = p + 1;
disp(Y_new);
end
1th bus reduction
  -11.0075 4.2537 6.7537
   4.2537 -5.4269
                      0.3731
    6.7537 0.3731 -7.9269
2th bus reduction
   -3.7831 2.9831
    2.9831 -3.7831
3th bus reduction
```

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