```matlab
% Problem 2b)
clear
close all
clc

A = [1 -3 3;2 -2 2; 2 0 0];
x1 = [1 1 1]';
x2 = [1 -1 1]';
tol = 10^-3;

%i)
[eval1,evec1] = power_method(A,x1,tol)

%ii)
[eval2,evec2] = power_method(A,x2,tol)
```

eval1 =

*   1*

evec1 =

*   0.3333*
*   0.6667*
*   0.6667*

eval2 =

*   1.9997*

evec2 =

*   0.7072*
*   0.0001*
*   -0.7071*

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