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```
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
%
% This is the driver script for the fourth question in homework A2
%
% Created by: Johnathan Tucker
%
% Date Created: 10/28/2019
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
%
%
```

Housekeeping

```
clear all;
close all;
clc;
```

Create inertia matrix

```
I = [783.5, 351.7, 40.27; 351.7, 783.5, -80.27; 40.27, -80.27, 783.5];
```

Calculate eigenstuff

```
[V, D] = eig(I);
```

Check that the DCM is equal to D

```
check_mat = ((V')*I*V);
```

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