Quiz 6	Fall 2007	Name			_ Group	
			[1.0	2.0	4.0	
			-2.1	3.2	6.1	
1. Write	the Matlab	input for the matrix	3.2	4.2	5.2	

```
2. What is the output of the last statement?
for i = 1:1:3
a(i,i)=0;
end
for i=1:1:3
a(i,i)=a(i,i)+i*2;
end
a(3,3)
```

4. Give an example of a symmetric matrix of size 4x4 with elements that are all non-zero and are as different from each other as possible.

5. Give an example of a diagonally dominant matrix of size 4x4 with elements that are all non-zero.

6. Give an example of a 4x4 diagonal matrix with as many nonzero elements as possible