HW 1
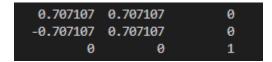
DAINONG HU

Q1:

The point first rotates 90 degrees clockwise, and then move down 2 units then right 2 units.

Q2:

```
0.707107   0.707107         0
-0.707107  0.707107         0
        0         0         1
```

Q3:

```
1  0  0 -2
0  1  0  8
0  0  1  3
0  0  0  1
```

Q4:

a)

```
1  0 -1
0  1 -5
0  0  1
```

b)

```
2         0         0
0 0.333333         0
0         0         1
```

c)

```
1 0 2
0 1 0
0 0 1
```

d)

```
2         0         0
0 0.333333 -1.66667
0         0         1
```