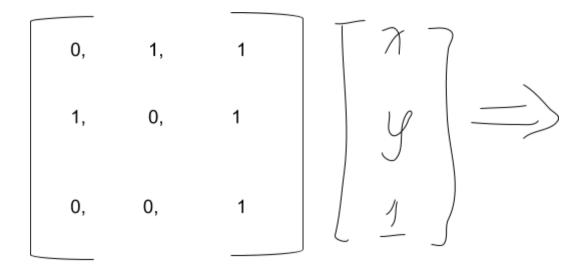
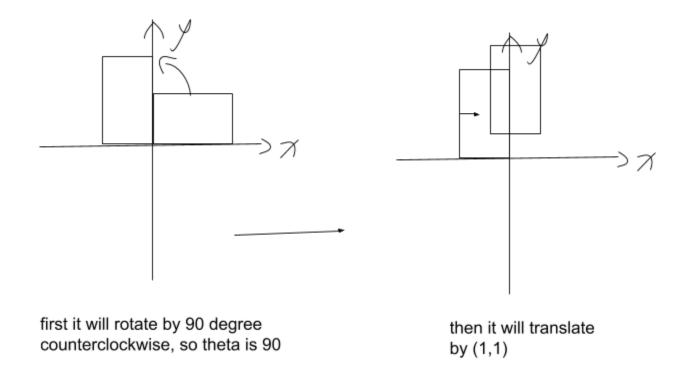
Homework #1 Report

1. the matrix will result in



so the answer is the point will be rotated counterclockwise by 90 degree, and translated by (1,1)



2. screenshot of problem 2, 3, 4.

```
Question 2
0.707107 0.707107
                            0
0.707107 0.707107
                            0
        0
Question 3
1 0 0 3
0 1 0 4
0 0 1 5
Question 4
step1: move (2,3) back to origin
1 0 -2
0 1 -3
step2: scale, since the origin's size is same as new's, scale sx and sy are both 1
1 0 0
0 1 0
0 0 1
step3: move to (3,2)
1 0 3
0 1 2
0 0 1
```