```
Part I
```

Q1:

Using the translate matrix and rotate matrix I get: glTranslatef(-2, -3, 0);

glRotatef(45, 1, 0, 0);

glRotatef(45, 0, 1, 0);

glRotatef(30, 1, 0, 0);

glRotatef(45, 0, -1, 0);

glRotatef(45, -1, 0, 0);

glTranslatef(2, 3, 0);

Then I can get M:

Q2:

```
glTranslatef(2, 3, 0);
glRotatef(45, -1, 0, 0);
glRotatef(45, 0, -1, 0);
glRotatef(30, 1, 0, 0);
glRotatef(45, 0, 1, 0);
glRotatef(45, 1, 0, 0);
glTranslatef(-2, -3, 0);
DrawCube();
```