**CSCI 2150**

**Lab Assignment 1:**

**Assigned: 1/26/2015, Monday**

**Due: 2/2/2015, Monday**

**Spring 2015**

1. Remember how we rotated an ellipse using a rotational matrix in 2-D plane. Similarly, rotate a right angled triangle with an angle of 30 degrees and the following co-ordinates for the right angled triangle:

(2,1), (6,1), (2,5) (Or any points that define a right angled triangle)

Now to rotate the set of points in 2D we need to have a rotational matrix.

1. Along with this matrix, a new matrix will be needed containing the X and Y co-ordinates of the triangle.

Write a script that uses these matrices on the set of points for the triangle to rotate it. The script should be able to plot 2 graphs (i.e. one with the points that define the triangle and rest obtained by rotating those points by) in same figure.

Upload the script to *elc.*