Warren Quattrocchi
CSC 133
Attendance quiz 7

$$\begin{bmatrix} 1 & 0 & a \\ 0 & 1 & b \\ 0 & 0 & 1 \end{bmatrix} \times \begin{bmatrix} x \\ y \\ 1 \end{bmatrix} = \begin{bmatrix} x+o+a \\ o+y+b \\ 0+0+1 \end{bmatrix}$$

a = 3, b = -2   x = 3, y = 6

$$= \begin{bmatrix} 6 \\ 4 \\ 1 \end{bmatrix} = (6,4)$$

$$\begin{bmatrix} Cos(60) & -sin(60) & 0 \\ Sin(60) & cos(60) & 0 \\ 0 & 0 & 1 \end{bmatrix} \times \begin{bmatrix} x \\ y \\ 1 \end{bmatrix}$$

.5*x - .866*y +0
.866*x + .5*y   +0
0 + 0 + 1

$$\begin{bmatrix} -.464 \\ 7.196 \\ 1 \end{bmatrix} = (-.464, 7.196)$$