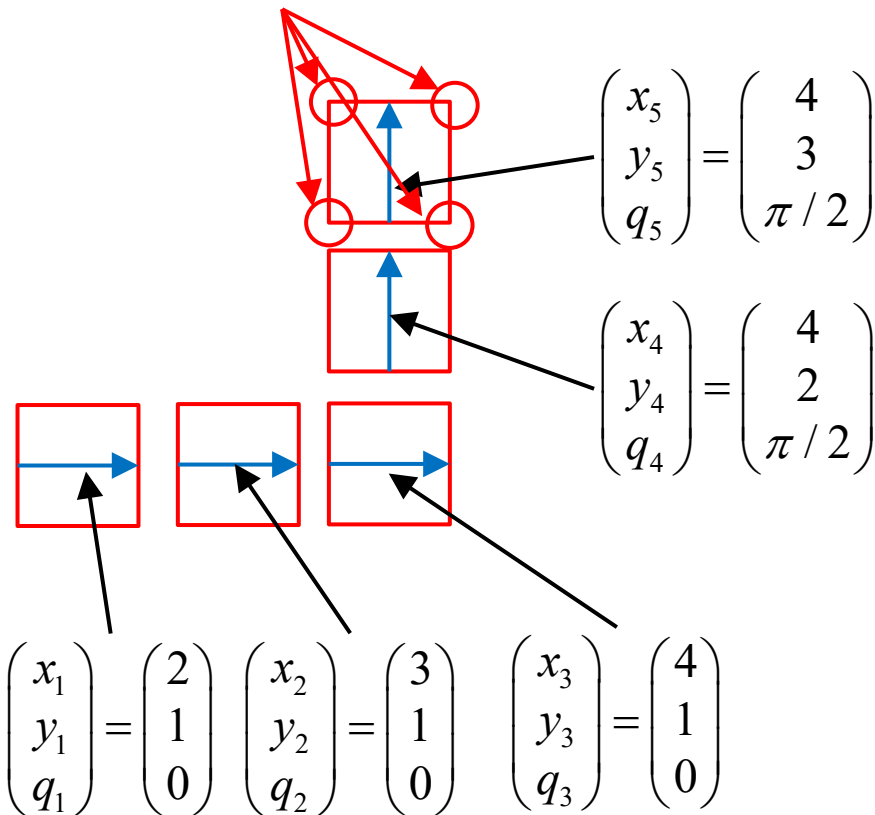


Quiz #1: Frame Transformation in 2D

$$\begin{pmatrix} 0.8 \\ 0.8 \end{pmatrix}, \begin{pmatrix} -0.8 \\ 0.8 \end{pmatrix}, \begin{pmatrix} -0.8 \\ -0.8 \end{pmatrix}, \begin{pmatrix} 0.8 \\ -0.8 \end{pmatrix}$$



- Suppose a vehicle moves as in the left figure
- At each of the positions, it measures the four points from its local frame
- Make an integrated map of sensed points with homogeneous transformation matrix

Example of Result

