Task:

- . O follows a desired space curve
- · Keeps line of sight with p

Data:

Pobot dimensions di, de

- space curve data

0x(t), 0y(t), 0z(t)

Px(t), Py(b), Pz(t)

For 0: straight line

$$\begin{bmatrix}
o_{x}(b) \\
o_{y}(t)
\end{bmatrix} = \begin{bmatrix}
1/2 \\
1/2 \\
4
\end{bmatrix} + \begin{bmatrix}
1 \\
2
\end{bmatrix}$$

$$\underbrace{3/2}_{2} + \underbrace{4}_{1} = \underbrace{2}_{1}$$

For
$$p: P_{x}(t) = 4 \cos(\omega t)$$

 $P_{y}(t) = 4 \sin(\omega t)$
 $P_{z}(t) = 10$

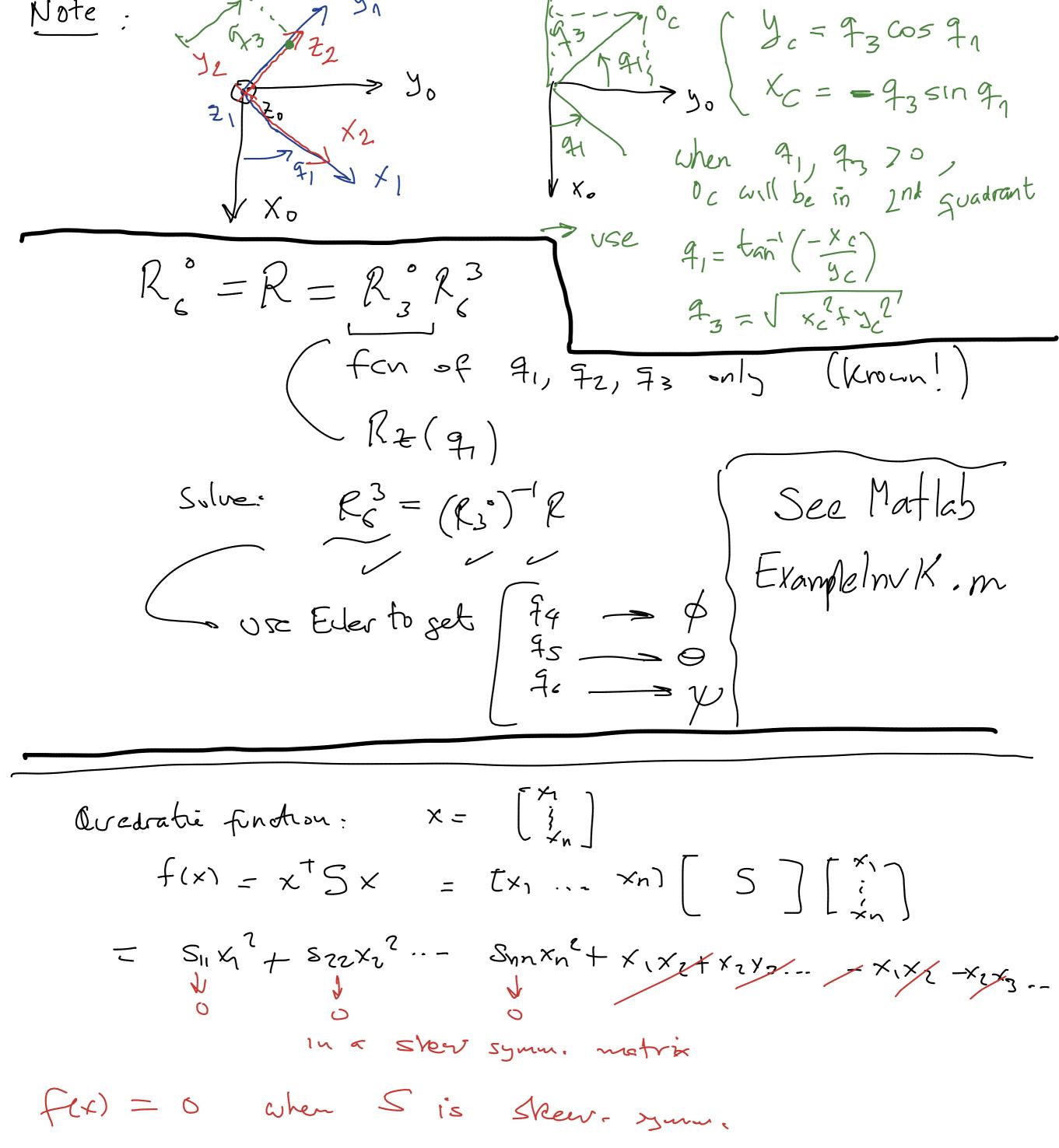
$$Z_{6}(t) = \frac{P-0}{\|P-0\|} = \begin{cases} Z_{6,1}(t) \\ Z_{(2,1t)} \\ Z_{(3,1t)} \end{cases}$$

$$R(t) = \begin{cases} x_6.x_6 & y_6.x_6 & ... \\ x_6.z_6 & ... & z_6.z_6 \end{cases}$$

Method:
$$H_6(q) = \begin{bmatrix} R & 0 \\ \hline 0 & 1 \end{bmatrix}$$

$$Q_{0} = \begin{pmatrix} 0 \\ 0 \\ 0 \\ 0 \end{pmatrix}$$

$$9 = \begin{bmatrix} 9_1(t) \\ 9_1(t) \\ \vdots \\ 9_6(t) \end{bmatrix}$$



A: any matrix $A = \left(\frac{A + A^{T}}{2}\right) + \left(\frac{A - A^{T}}{2}\right)$