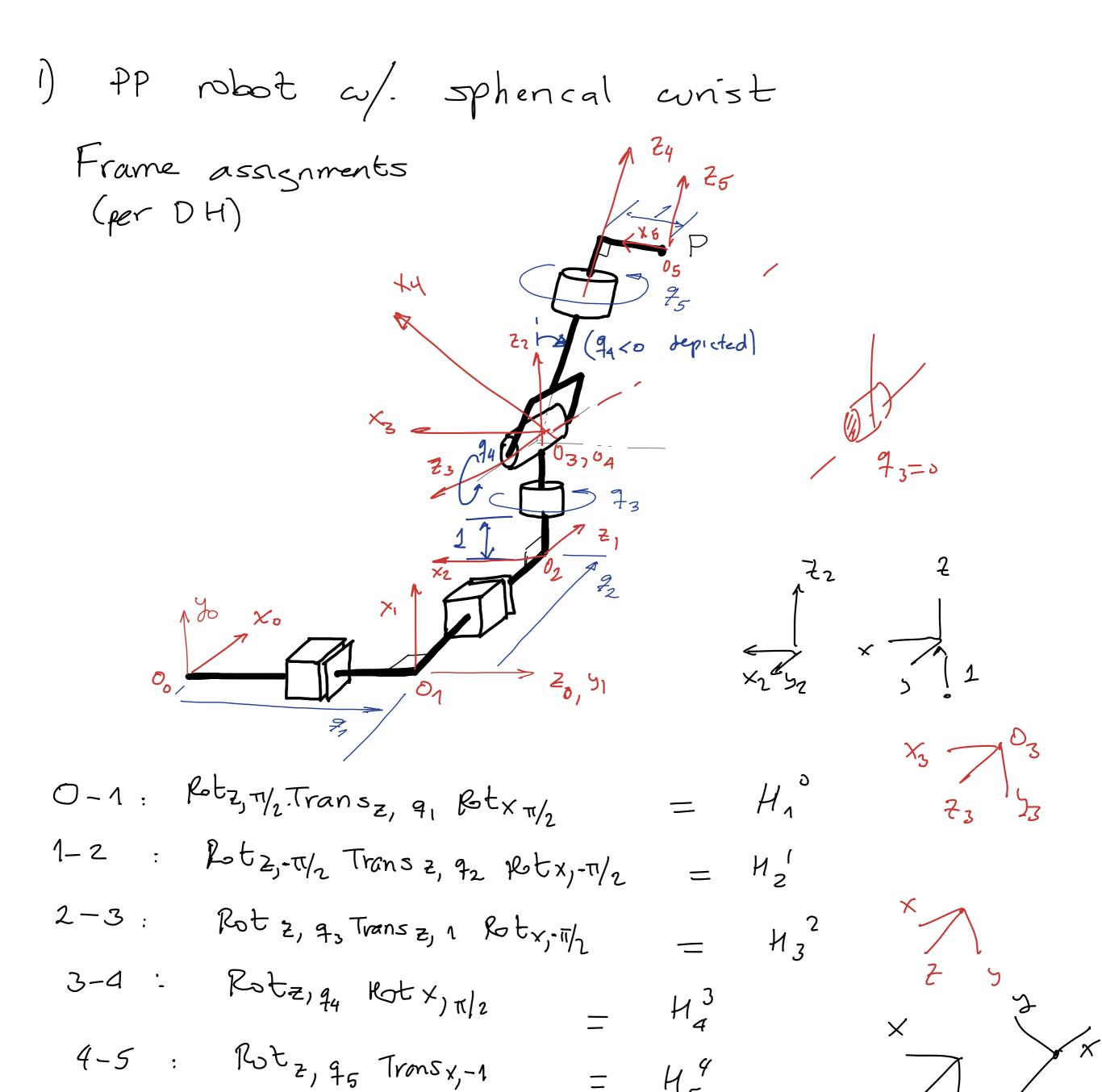
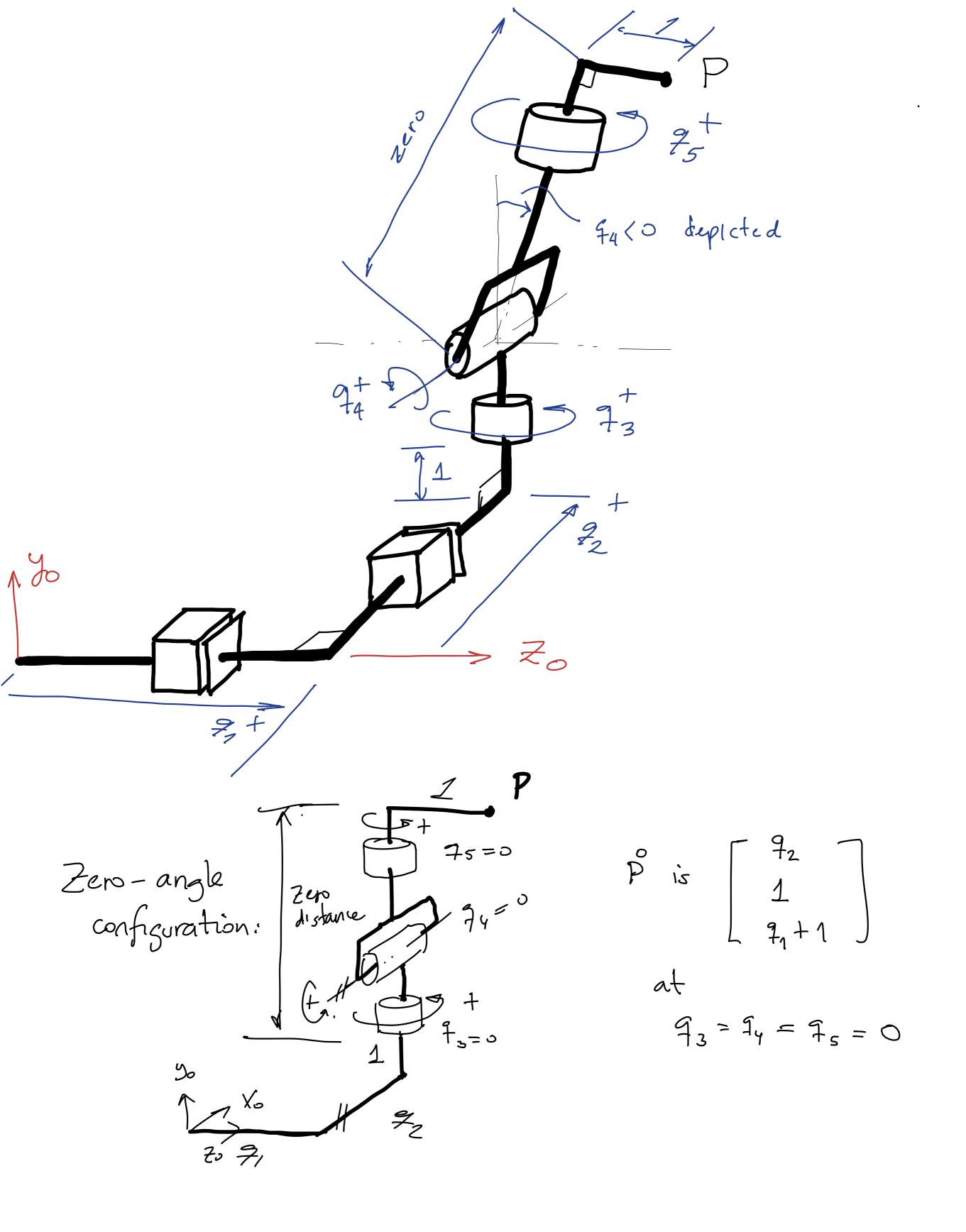
MCE 647/747 HWZ





D-H Table.

link	Θ	d	a	\sim
1	77/2	91 *	0	17/2
2	- T/2	92 ×	\circ	- T/Z
3	4 3	1	0	- T/2
4	74 *	0	7	T1/2
5	g *	O	- 1	0

Verification:

$$9_1 = 1$$
, $9_2 = 1$, $9_3 = \pi$, $9_4 = 0$, $9_5 = \pi/2$
We expect to have

$$P = \begin{bmatrix} 0 \\ 1 \\ 1 \end{bmatrix}$$

Checking the composite transformation:

$$H_{5}^{0} = H_{1}^{0} H_{2}^{1} H_{3}^{2} H_{4}^{3} H_{5}^{4} \qquad \text{with} \qquad P = \begin{bmatrix} 0 \\ \frac{1}{2} \end{bmatrix}$$
with $P = \begin{bmatrix} 0 \\ \frac{1}{2} \end{bmatrix}$
with $P = \begin{bmatrix} 0 \\ \frac{1}{2} \end{bmatrix}$

Another verification point:

ther verification point:
$$q_1 = 0$$
, $q_2 = -1$, $q_3 = \sqrt{2}$, $q_4 = \sqrt{2}$, $q_5 = 0$

1 Phere Should be $P = \begin{bmatrix} -1 \\ 2 \\ 0 \end{bmatrix}$ (ok ω / code)

Now code for the following joint space traje ctories:

 $\begin{pmatrix}
4(t) = \sin 2t \\
4_2(t) = \cos t \\
4_3(t) = -t$ $9_4(t) = \sin 2t$ $9_5(t) = t$

te [0 6T]

At = 0.01

The projections of the resulting Cartesian path look like: 20 0 20