HW2.5. Find the pose of a frame by sequential transformation

Suppose

$$T_{56} = \begin{bmatrix} -0.73 & 0.34 & -0.59 & 0.27 \\ 0.57 & 0.78 & -0.26 & 0.70 \\ 0.37 & -0.52 & -0.77 & 0.12 \\ 0.00 & 0.00 & 0.00 & 1.00 \end{bmatrix}$$

and

$$T_{63} = \begin{bmatrix} 0.15 & -0.79 & -0.59 & -0.99 \\ 0.75 & 0.48 & -0.46 & -0.71 \\ 0.65 & -0.37 & 0.67 & -0.11 \\ 0.00 & 0.00 & 0.00 & 1.00 \end{bmatrix}.$$

matlab | python

```
T_6in5 = [-0.73385191 0.33985127 -0.58818576
0.26667315; 0.56758350 0.78249633
-0.25602434 0.69652068; 0.37324301
-0.52172848 -0.76713040 0.12112802;
0.00000000 0.00000000 0.00000000
1.00000000];
T_3in6 = [0.15129897 -0.79290708 -0.59026009
-0.98709906; 0.74674914 0.48293232
-0.45732057 -0.70947935; 0.64766839
-0.37158408 0.66516985 -0.11274630;
0.00000000 0.00000000 0.00000000
1.00000000];
```

copy this text

Find the pose of frame 3 in the coordinates of frame 5:

$T_{53} =$ matrix (2 digits after decimal)

Save & Grade *Single attempt* | Save only

Additional attempts available with new variants

Homework 2

Assessment overview

Total points: 20/20

Score: 100%

Question

Value: 2

History: 1 1 1 2 1

Awarded points: 5/5

Report an error in this question

Previous question

Next question

Attached files

No attached files

Attach a file

Attach text