HW3.3. Find the rotation matrix of a body after a constant angular velocity is applied

Suppose that a body (frame 1) is originally aligned with a reference frame (frame 0). We then rotate the body around the origin of frame 0 at a constant angular velocity

$$w_{01}=egin{bmatrix} 2.83\ 2.83\ 1.65 \end{bmatrix}$$

for a duration of t=8.98 seconds. What is the orientation of the body with respect to the reference frame after the motion?



 $R_{01}= egin{array}{c} {\sf matrix} \ {\sf (rtol=0.01, atol=1e-08)} \end{array}$

Save & Grade
Single attempt

Save only

Additional attempts available with new variants

0

Assessment overview

Total 23/23 points:

80%

Score:

Question

Value:

History:

1
2
2
2
Awarded points: 2/2

Report an error in this question

Next question

Previous

question

Attached files

No attached files

Attach a file

Attach text