HW4.3. Find the pose that is produced by a given twist

Frame 0 is fixed in space and frame 1 is fixed in a body. The current pose of frame 1 in the coordinates of frame 0 is M. The body moves with spatial twist $\mathcal{V}_s$ for 1 second. Find the new pose T_{01} of frame 1 in the coordinates of frame 0.

Python

```
import numpy as np

M = np.array([[0.09100927, 0.07249035,
0.99320817, 2.25817043], [-0.75127085,
0.65966953, 0.02069348, -1.72885787],
[-0.65368909, -0.74805164, 0.11449593,
-0.03163089], [0.00000000, 0.00000000,
0.00000000, 1.00000000]])
V_s = np.array([[0.08814971], [0.69281560],
[0.86389055], [-0.15560807], [-0.60701232],
[0.26247371]])
```

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$T_{01} =$ matrix (rtol=0.01, atol=1e-08)

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Single attempt

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Homework 4

Assessment overview

Total points: 22/22

Score: 110%

Question

Value: 1

History: 1 2 1 1 2

Awarded points: 5/5

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