

The file submitted has the fully functioning Puma Robot, the object, wine glass isn't completely smooth & would not be programmed to work for variable K&t (The Puma Robot works for variable K&t).

(a) The code written to generate robot.ang (Robot-code.m)
object.traj (Object-code.m)

6 making the program work for multiple K&t.

It's relatively easier to generate exact 't' no of frames, mathematically,

K) t (Q = Quotinet) $\frac{1}{R} = \frac{1}{R} = \frac{1}{R} \times (K-1) + R \cdot \left(\frac{1}{R} = \frac{1}{R} \times (K-1) + R \cdot \left(\frac{1}{R} = \frac{1}{R} \times (K-1) + R \cdot \left(\frac{1}{R} = \frac{1}{R} \times (K-1) + R \cdot \left(\frac{1}{R} = \frac{1}{R} \times (K-1) + R \cdot \left(\frac{1}{R} = \frac{1}{R} \times (K-1) + R \cdot \left(\frac{1}{R} = \frac{1}{R} \times (K-1) + R \cdot \left(\frac{1}{R} = \frac{1}{R} \times (K-1) + R \cdot \left(\frac{1}{R} = \frac{1}{R} \times (K-1) + R \cdot \left(\frac{1}{R} = \frac{1}{R} \times (K-1) + R \cdot \left(\frac{1}{R} = \frac{1}{R} \times (K-1) + R \cdot \left(\frac{1}{R} = \frac{1}{R} \times (K-1) + R \cdot \left(\frac{1}{R} = \frac{1}{R} \times (K-1) + R \cdot \left(\frac{1}{R} = \frac{1}{R} \times (K-1) + R \cdot \left(\frac{1}{R} = \frac{1}{R} \times (K-1) + R \cdot \left(\frac{1}{R} = \frac{1}{R} \times (K-1) + R \cdot \left(\frac{1}{R} = \frac{1}{R} \times (K-1) + R \cdot \left(\frac{1}{R} = \frac{1}{R} \times (K-1) + R \cdot \left(\frac{1}{R} + \frac{1}{R} \times (K-1) + R \cdot \left(\frac{1}{R} + \frac{1}{R} \times (K-1) + R \cdot \left(\frac{1}{R}$

Ris always less than "k"."

for the given k lt (5 & 67 respectively

we first compute K-1 (4): Those are the mo. of times we perform interpolate

67 gives Q=16 & R=3.

80, 17+17+17+16 = 67

What was done is, we add the Quotient (a) k-1 times, if R=0 then, if R is added R-1 times we get t'. *R \display 0

Then,

We add t1 to R' no of terms,

from given K & t, $\begin{pmatrix} 16 \\ +1 \end{pmatrix} + \begin{pmatrix} 16 \\ +1 \end{pmatrix} + \begin{pmatrix} 16 \\ +1 \end{pmatrix} + 16 = 67$ This was easier to do for the Robot. ang but confortunately I couldn't realize It for the objectraj. C.) If we confinue to use MATCAB then, Aerospace Toolbox would simplify the process in a great Letail.
else, We can use other surpting languages like Python or R, which would help us to perform operations on the Matrices & aways in a quicken & short way.