

```
0100
         001-2
         0001
(3°) Rodar or sist. de condenados B de um ânqulo igual a +T1/2 sobre o eixo ^F = [1,0,0]
  A'T - AT . R.(T/2)
                      0000
-100-2
-0000
                                                               0
          0610
           1002
           0100
           PPOL
b)
            0
                                      00 07
01 00
10 0 5
0 0 -1 0
                           00000
                                                    00-10
       B"T = 8T . A'T
c)
                                                    -1002
                                                    0102
                      0 12/2
```

d)
$$\beta^{1}R = \delta R \cdot \beta^{1}R = J_{3/3} \cdot \begin{bmatrix} 0 & \frac{12}{3} / 2 & \frac{12}{3} / 2 \\ 1 & 0 & 0 \\ 0 & \frac{12}{3} / 2 & -\frac{12}{3} / 2 \end{bmatrix}$$

$$q_{1} = \underbrace{I_{22} \cdot I_{23}}_{4 \cdot 2} = 0.653$$

$$q_{2} = \underbrace{I_{12} \cdot I_{33}}_{4 \cdot 20} = 0.653$$

$$q_{3} = \underbrace{I_{21} \cdot I_{32}}_{4 \cdot 20} = 0.271$$

$$q_{0} = \underbrace{1}_{2} \cdot \underbrace{1 \cdot I_{11} \cdot I_{22}}_{12} + I_{33}$$

$$15$$

$$1 \rightarrow R \Rightarrow P = \begin{bmatrix} \frac{1}{12} & \frac{1}{12} & 0 \\ \frac{1}{12} & \frac{1}{12} & 0 \end{bmatrix}$$

$$2 \rightarrow deshecamento \quad t \cdot [J_{0}, 30, 0]^{T}$$

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$$1 \mid p_{1} \mid - \frac{1}{2} (\theta) \Rightarrow \theta = \pi/2$$

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T. P. O. O. 10 7	
23 ACRO \$ T = \[\begin{pmatrix} 1 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 \\ 0 & 0 &	
WT - [12 12 10 10 12 12 10 12 12 10 12 12 12 30 12 12 12 30 12 12 12 12 12 12 12 12 12 12 12 12 12	
b) w T = ?	
1/2 1/2 - 1/2 30 1 0 0 30 \ - 1/2 1/2 0 0 0 1 50	1 00 -1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0100 0100 1	100 000 0-125 001
$cNT = cT \cdot T_{r} \cdot cT$	
3T=2T.PT.CT= 0-100 -100-25 00-1-20	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$

$\begin{array}{cccccccccccccccccccccccccccccccccccc$	25-0 0 1-0	The state of the s
$\begin{bmatrix} 0 & 0 & 1 & 1 & 0 & 0 & 0 & 0 & 0 & 0 &$	0 0 0 1	