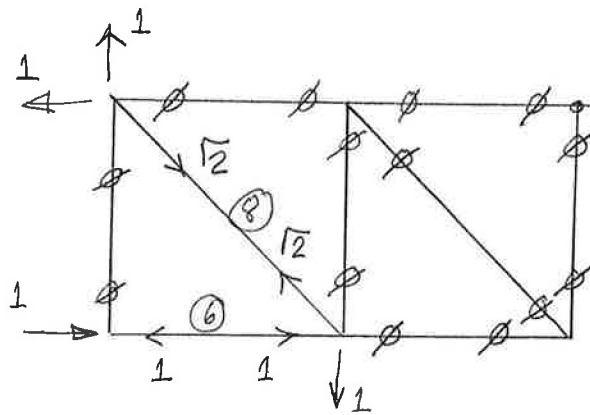


b	\hat{N}	b	\hat{N}
1	1,255P	7	-1,774P
2	2,255P	8	2,468P
3	0,370P	9	-0,523P
4	0,370P	10	0,891P
5	-0,630P	11	0,625P
6	-2,745P		

EIF



$$\begin{aligned}
 v_E &= \sum_{b=1}^{n_b} \frac{\hat{N}_b m_b}{EA} l = \frac{\hat{N}_6 n_6}{EA} \times a + \frac{\hat{N}_8 n_8}{EA} \times a\sqrt{2} \\
 &= \frac{-2,745P \times (-1)}{EA} \times a + \frac{2,468P \times \sqrt{2}}{EA} \times a\sqrt{2} = 7,681 \frac{Pa}{EA}
 \end{aligned}$$

$$v_E = 7,68 \frac{Pa}{EA} (\downarrow)$$

Rotação barra 4

$$\varphi_{b4} = \frac{a}{EA} \left[(2,255P + 0,370P) \times \frac{1}{a} + (-0,630P - 2,745P) \times (-\frac{1}{a}) \right]$$

