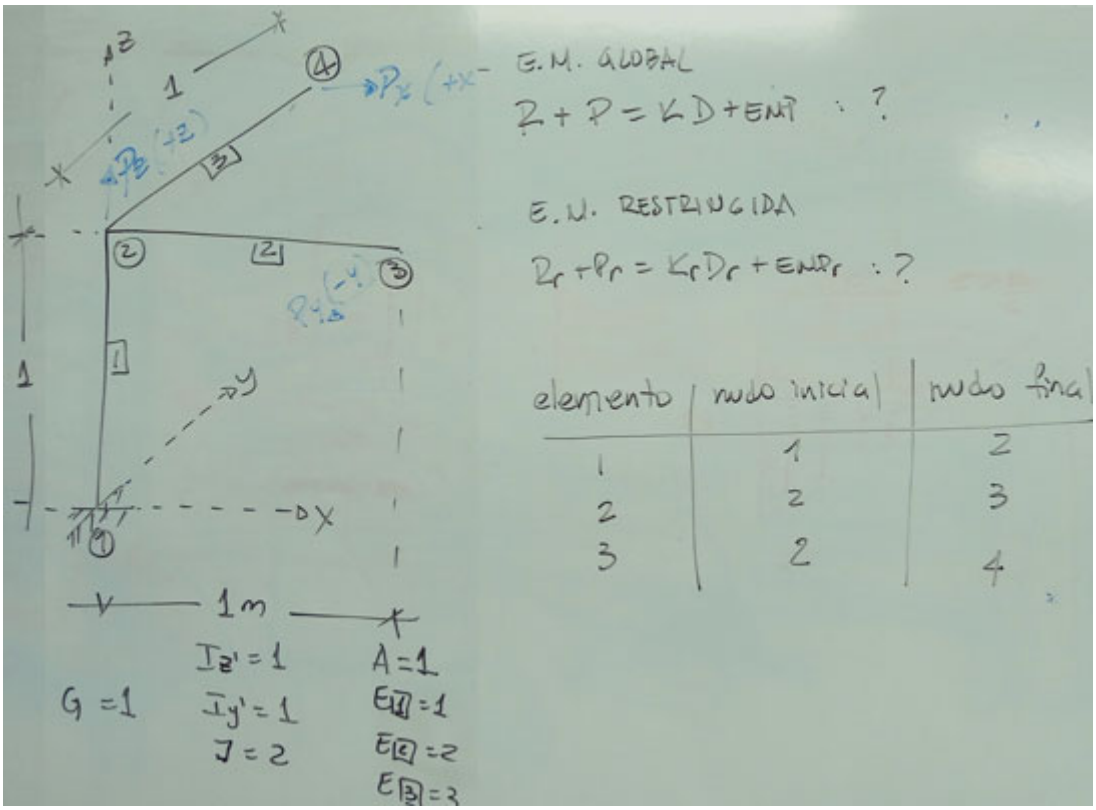

#1: [CaseMode:=Sensitive,InputMode:=Word,DisplayFormat:=Compressed,TimesOperator:=Implicit]

Ejercicio solamente para seguir una traza del procedimiento de análisis matricial tridimensional

Utilizando un vector y local auxiliar en cualquier dirección (no recomendado en este caso):

#2: y_porbis:=[1,1,1]

Elemento 1:

#3: x_local:=[0,0,1]

#4: $$z\_local := \frac{\mathrm{CROSS}(x\_local, y\_porbis)}{\sqrt{(\mathrm{CROSS}(x\_local, y\_porbis)^2)}}$$

#5: $$z\_local := \frac{[-1,1,0]}{\sqrt{(\mathrm{CROSS}(x\_local, y\_porbis)^2)}}$$

#6: $$z\_local := \frac{[-1,1,0]}{\sqrt{([-1,1,0]^2)}}$$

#7: $$z\_local := \frac{[-1,1,0]}{\sqrt{2}}$$

#8: $$z\_local := \left[-\frac{\sqrt{2}}{2}, \frac{\sqrt{2}}{2}, 0\right]$$

#9: z_local:=[-0.7071067811,0.7071067811,0]

#10: y_local:=CROSS(z_local,x_local)

#11: $$y\_local := \left[\frac{\sqrt{2}}{2}, \frac{\sqrt{2}}{2}, 0\right]$$

#12: y_local:=[0.7071067811,0.7071067811,0]

Elemento 2:

#13: x_local:=[1,0,0]

#14: $$z\_local := \frac{[0,-1,1]}{\sqrt{(CROSS(x\_local, y\_porbis)^2)}}$$

#15: $$z\_local := \left[0, -\frac{\sqrt{2}}{2}, \frac{\sqrt{2}}{2}\right]$$

#16: z_local:=[0,-0.7071067811,0.7071067811]

#17: y_local:=[0,0.7071067811,0.7071067811]

#18: $$y\_local := \left[0, \frac{\sqrt{2}}{2}, \frac{\sqrt{2}}{2}\right]$$

Elemento 3:

#19: x_local:=[0,1,0]

#20: $$z\_local := \frac{[1,0,-1]}{\sqrt{(CROSS(x\_local, y\_porbis)^2)}}$$

#21: z_local:=[0.7071067811,0,-0.7071067811]

#22: $$z\_local := \left[\frac{\sqrt{2}}{2}, 0, -\frac{\sqrt{2}}{2}\right]$$

#23: y_local:=[0.7071067811,0,0.7071067811]

#24: $$y\_local := \left[\frac{\sqrt{2}}{2}, 0, \frac{\sqrt{2}}{2}\right]$$