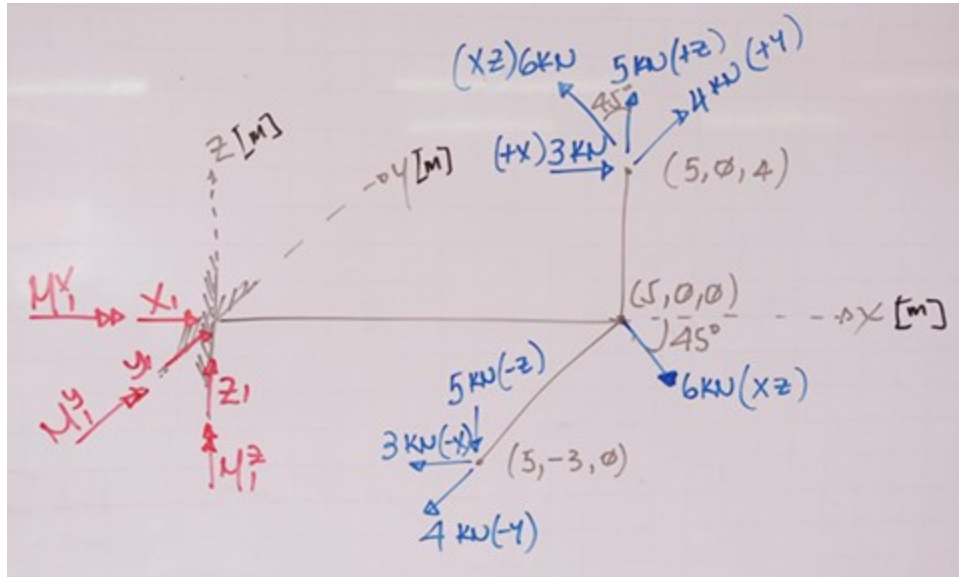


#1: [CaseMode := Sensitive, InputMode := Word]



Ecuaciones de equilibrio estático:

$\sum F_x = 0;$
 $\sum F_y = 0;$
 $\sum F_z = 0;$
 $\sum M_x = 0$ respecto al nudo 1;
 $\sum M_y = 0$ respecto al nudo 1;
 $\sum M_z = 0$ respecto al nudo 1

#2:

$$\begin{bmatrix}
 X1 - 3 + 3 + 6 \cdot \frac{\sqrt{2}}{2} - 6 \cdot \frac{\sqrt{2}}{2} = 0 \\
 Y1 + 4 - 4 = 0 \\
 Z1 + 5 - 5 + 6 \cdot \frac{\sqrt{2}}{2} - 6 \cdot \frac{\sqrt{2}}{2} \\
 Mx1 + 5 \cdot 3 - 4 \cdot 4 = 0 \\
 My1 + 5 \cdot 5 + 6 \cdot \frac{\sqrt{2}}{2} \cdot 5 + 3 \cdot 4 - 5 \cdot 5 - 6 \cdot \frac{\sqrt{2}}{2} \cdot 4 - 6 \cdot \frac{\sqrt{2}}{2} \cdot 5 = 0 \\
 Mz1 - 3 \cdot 3 - 4 \cdot 5 + 4 \cdot 5 = 0
 \end{bmatrix}$$

#3: $[Mx1 = 1 \wedge My1 = 12 \cdot \sqrt{2} - 12 \wedge Mz1 = 9 \wedge X1 = 0 \wedge Y1 = 0 \wedge Z1 = 0]$

#4: $[Mx1 = 1 \wedge My1 = 4.970562748 \wedge Mz1 = 9 \wedge X1 = 0 \wedge Y1 = 0 \wedge Z1 = 0]$