Second Last

$$\begin{aligned}
\xi F_{X} &= f_{1}X + f_{2}X + f_{3}X + f_{4}X = 7 & \xi_{x} + \zeta_{1}Y + \xi_{x} + \zeta_{1}Y + \xi_{2}X + \xi_{3}X + \xi_{4}X \\
&= 0 \quad (equalibrium
\end{aligned}$$

About Node 1
$$\forall x \leq M = \int_{+\infty}^{+\infty} (Ly) + \int_{3}^{+\infty} (Ly) - \int_{3}^{+\infty} (Lx) - \int_{2}^{+\infty} (Lx) = \frac{G_{1}^{+}(Lx)}{3x}(Ly) + \frac{G_{1}^{-2}(Ly)}{6x}(Ly) - \frac{G_{2}^{+}(Lx)}{4}(Lx) \neq 0$$

$$= (Ly)(\frac{3G_{1}}{6x}) - (Lx)(\frac{2G_{2}^{+}}{4})$$

$$= (Ly)(\frac{G_{2}^{+}}{2x}) - (Lx)(\frac{G_{2}^{+}}{2x})$$

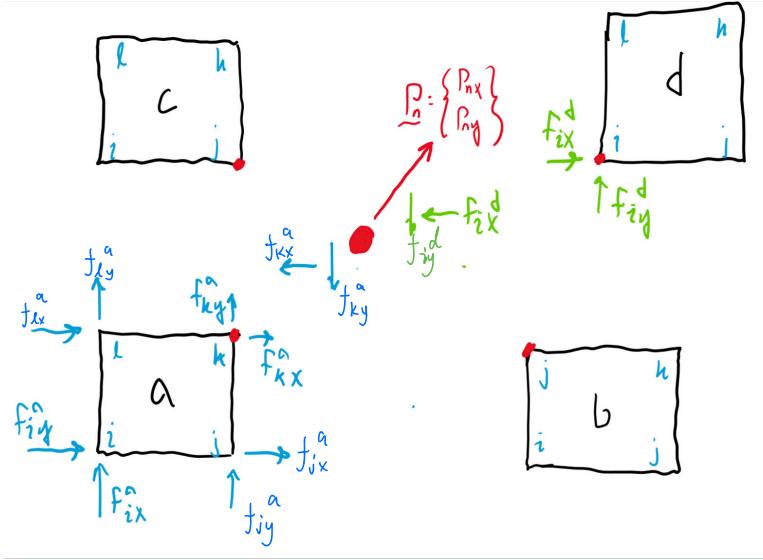
Deform: =
$$\frac{GrtC_1r^2(Ly) + \frac{Gr-2C_1r^2}{6r}(Ly) - \frac{Gr-L_1(Lx) - \frac{C_2th}{4}(Lx) + \frac{GrtC_2}{4}}{(Lx) + \frac{GrtC_2}{4}}$$

= $(Ly)(\frac{Gr}{2r}) - (Lx)(\frac{Gr}{2r}) + \frac{GrtC_2}{4}$

16. The deformation is small.

The vertical forces are not zeros because the element might expand (i.e. poisson Ratio) due to the face from a single direction.

Last bon



20. It does not converge because the shape corner outs like a singularities and the mesh current be fine anough to make it converge.

26. When make it rounded, the mesh is able to make it converge because It's not a singularity.

