



• Sur x:

$$\begin{cases} F_{1x} = -F_1 \cos 60 \\ F_{2x} = F_2 \cos 45 \\ P_x = 0 \end{cases}$$

• Sur y:

$$\begin{cases} F_{1y} = -F_1 \sin 60 = -F_1 \cos 30 \\ F_{2y} = -F_2 \sin 45 = -F_2 \cos 45 \\ P_y = P \end{cases}$$

$$\begin{cases} F_{1x} + F_{2x} + P_x = 0 \\ F_{1y} + F_{2y} + P_y = 0 \end{cases}$$

$$\begin{cases} -F_1 \cos 60 + F_2 \cos 45 = 0 \\ -F_1 \cos 30 - F_2 \cos 45 + P = 0 \end{cases}$$

$$\begin{cases} F_1 \cos 60 = F_2 \cos 45 \\ -F_1 \cos 30 - F_2 \cos 45 + P = 0 \quad \textcircled{1} \end{cases}$$

$$\begin{aligned} \textcircled{1} -F_1 \cos 30 - F_1 \cos 60 + P &= 0 \\ -F_1 (\cos 30 + \cos 60) + P &= 0 \\ -F_1 (\cos 30 + \cos 60) &= -P \end{aligned}$$

$$F = \frac{P}{\cos 30 + \cos 60} \leftarrow ?$$