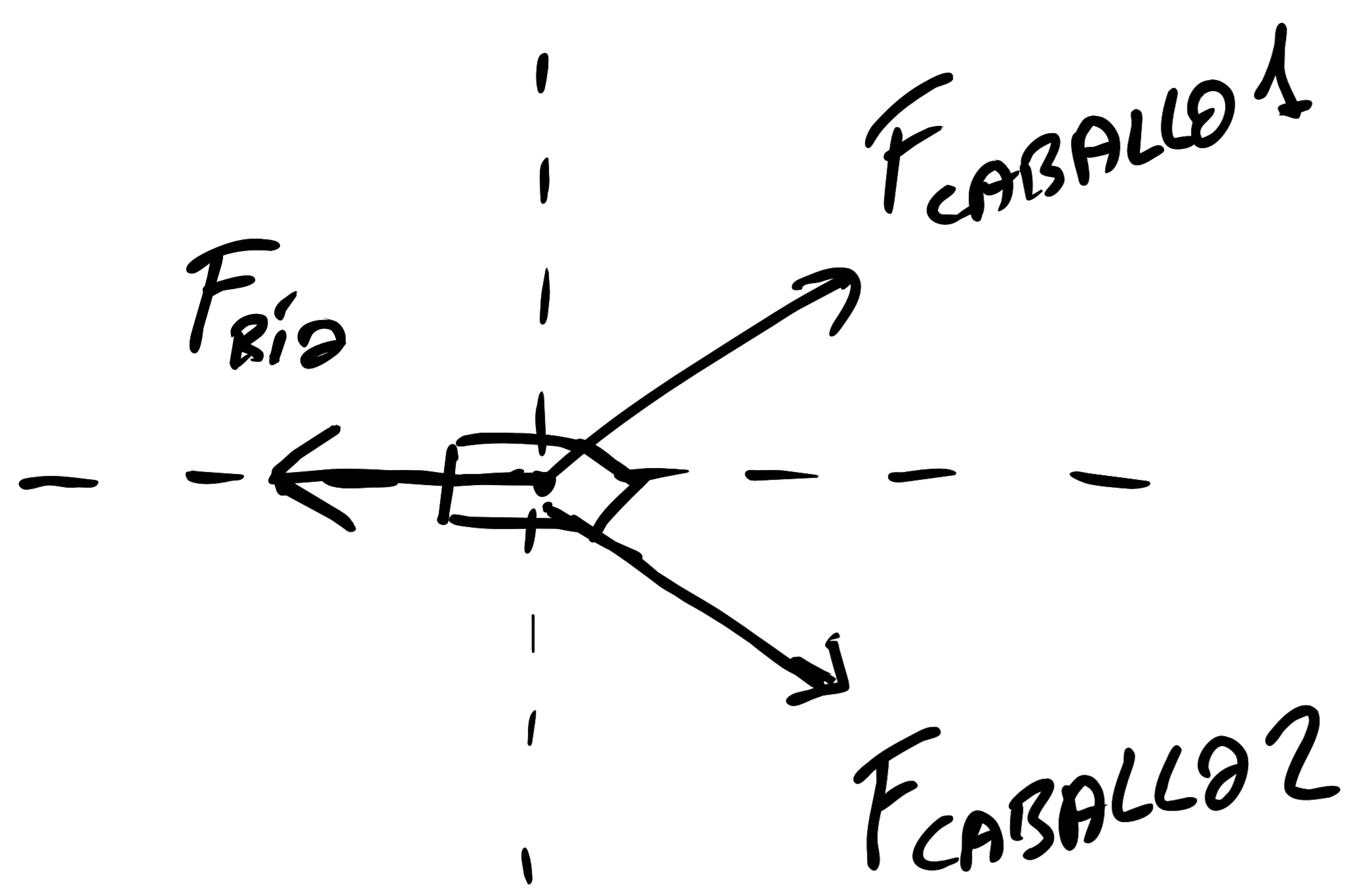
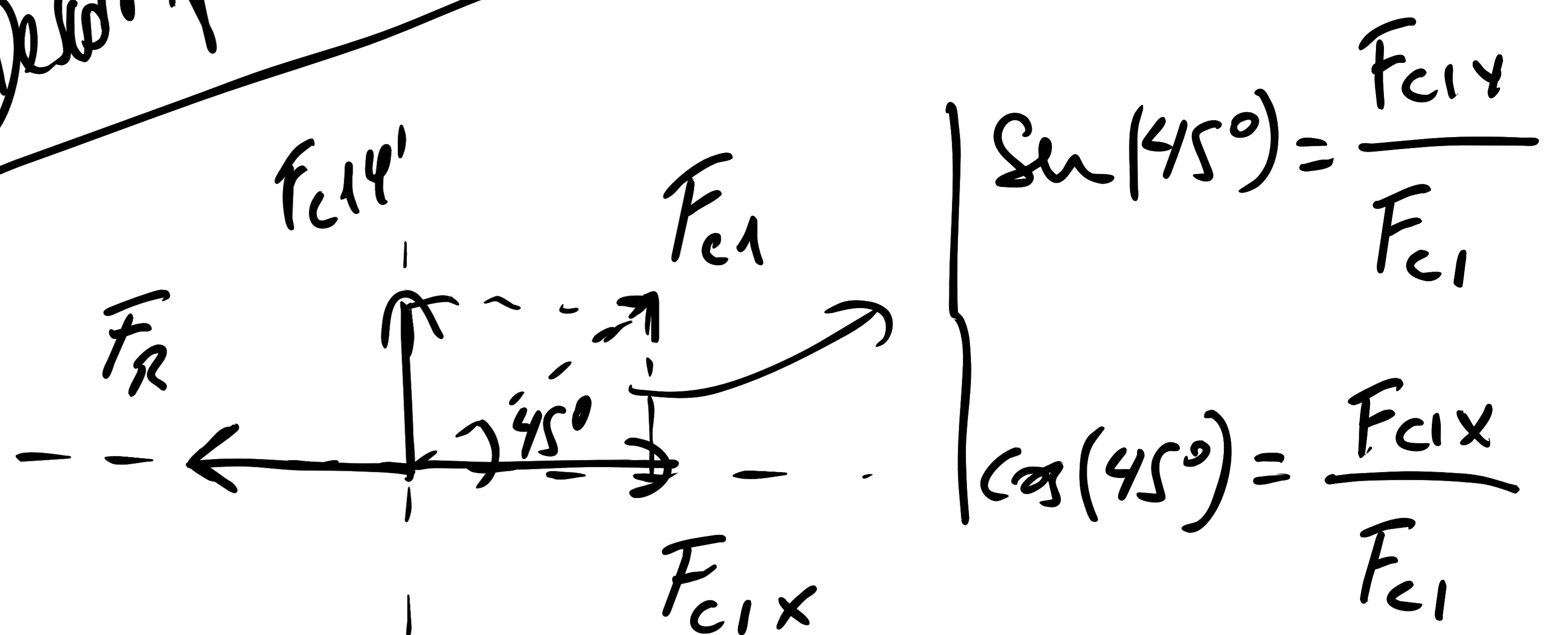


4:) (p. 79)



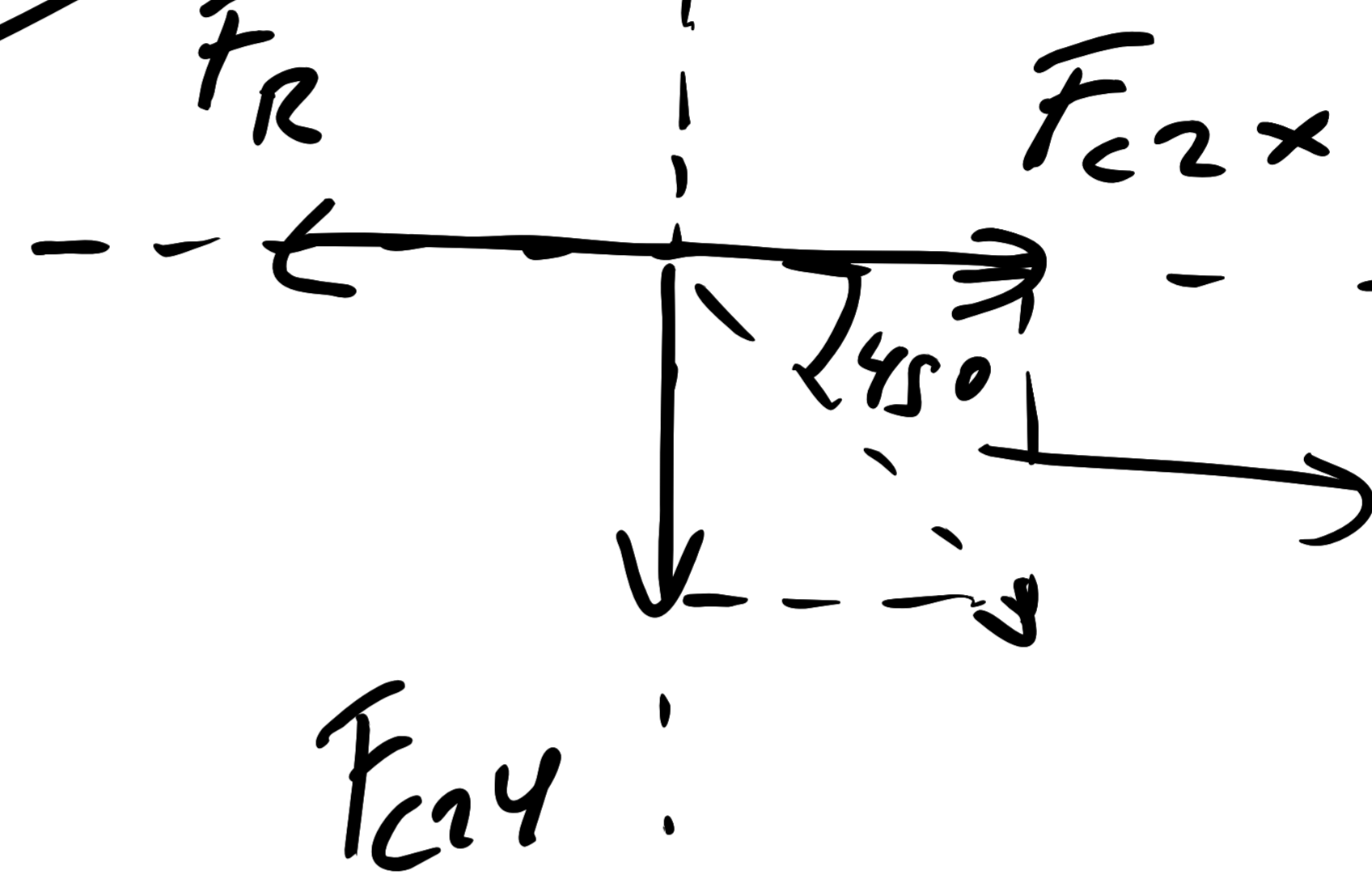
Descomposición de F_{c1}



$$\text{Sen}(45^\circ) = \frac{F_{c1y}}{F_{c1}}$$

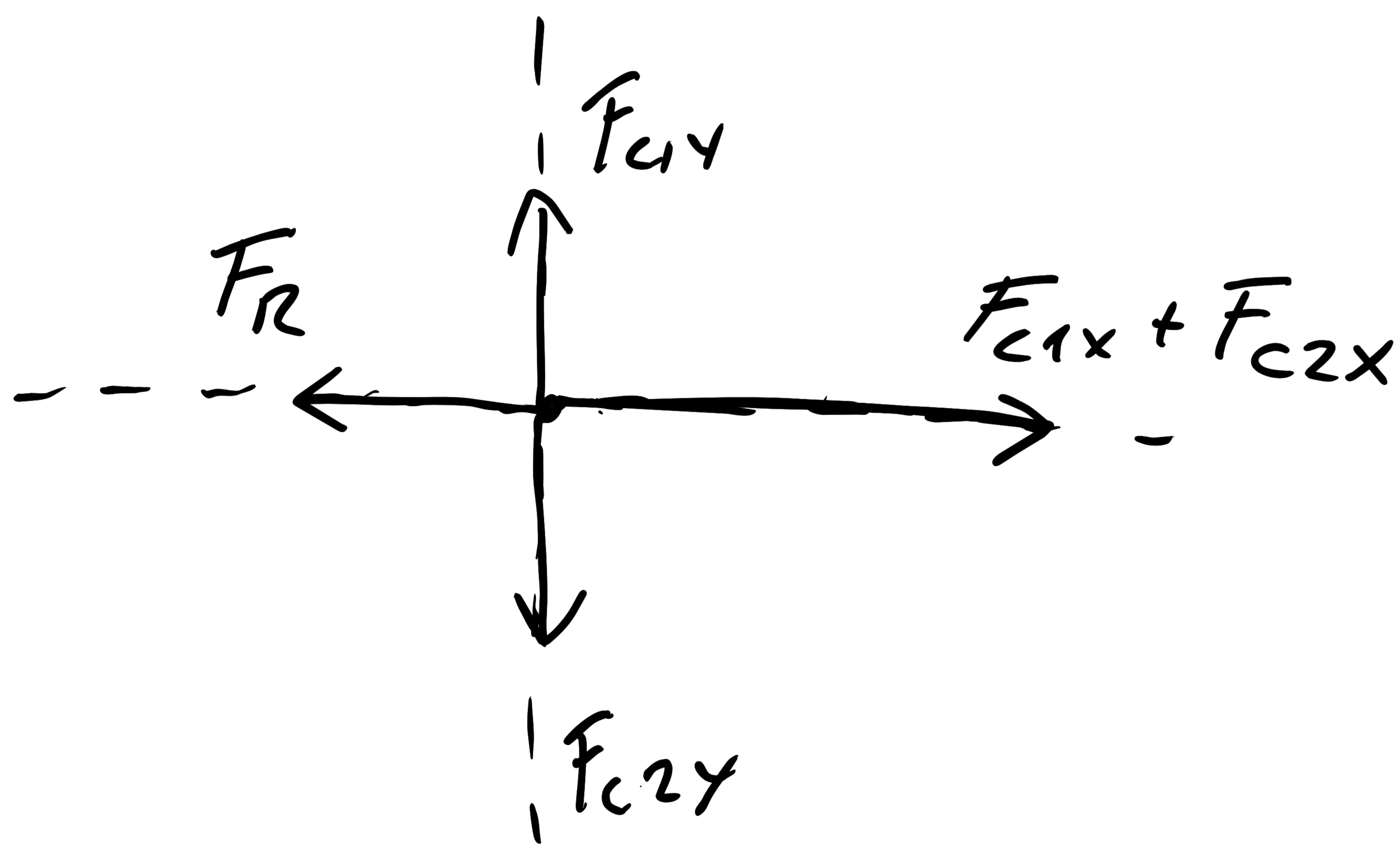
$$\text{Cos}(45^\circ) = \frac{F_{c1x}}{F_{c1}}$$

Descomposición de F_{c2}



$$\text{Sen}(45^\circ) = \frac{F_{c2y}}{F_{c2}}$$

$$\text{Cos}(45^\circ) = \frac{F_{c2x}}{F_{c2}}$$



$$\boxed{\sum \vec{F} = m \cdot \vec{a}}$$

EJE X

$$F_{c1x} + F_{c2x} - F_R = m \cdot a \rightarrow F_{c1} \cdot \text{Cos}(45^\circ) + F_{c2} \cdot \text{Cos}(45^\circ) - F_R = m \cdot a$$

$$\text{Cos}(45^\circ) [F_{c1} + F_{c2}] - F_R = m \cdot a \rightarrow 0.71 \cdot (25 + 25) - 10 = m \cdot a$$

$$35.36 - 10 = m \cdot a \rightarrow 25.36 = (22 \text{ Kg}) \cdot a \Rightarrow$$

$$\Rightarrow \boxed{a = 1.15 \text{ m/s}^2}$$

EJE Y

$$F_{c1y} - F_{c2y} = 0 \Rightarrow F_{c1y} = F_{c2y}$$