

$$a = 10u \quad \alpha = 30^\circ$$

$$b = 8u \quad \beta = 60^\circ$$

$$c = 9u \quad \gamma = 45^\circ$$

$$a_x = a \cos 30 = 8,66u$$

$$a_y = a \sin 30 = 5,0u$$

$$b_x = b \cos(-60) = 4,0u$$

$$b_y = b \sin(-60) = -6,93u$$

$$c_x = -c \cos 45 = -6,36u$$

$$c_y = -c \sin 45 = -6,36u$$

$$C_x = C \cos(225^\circ) = -6,36u$$

$$C_y = C \sin(225^\circ) = -6,36u$$

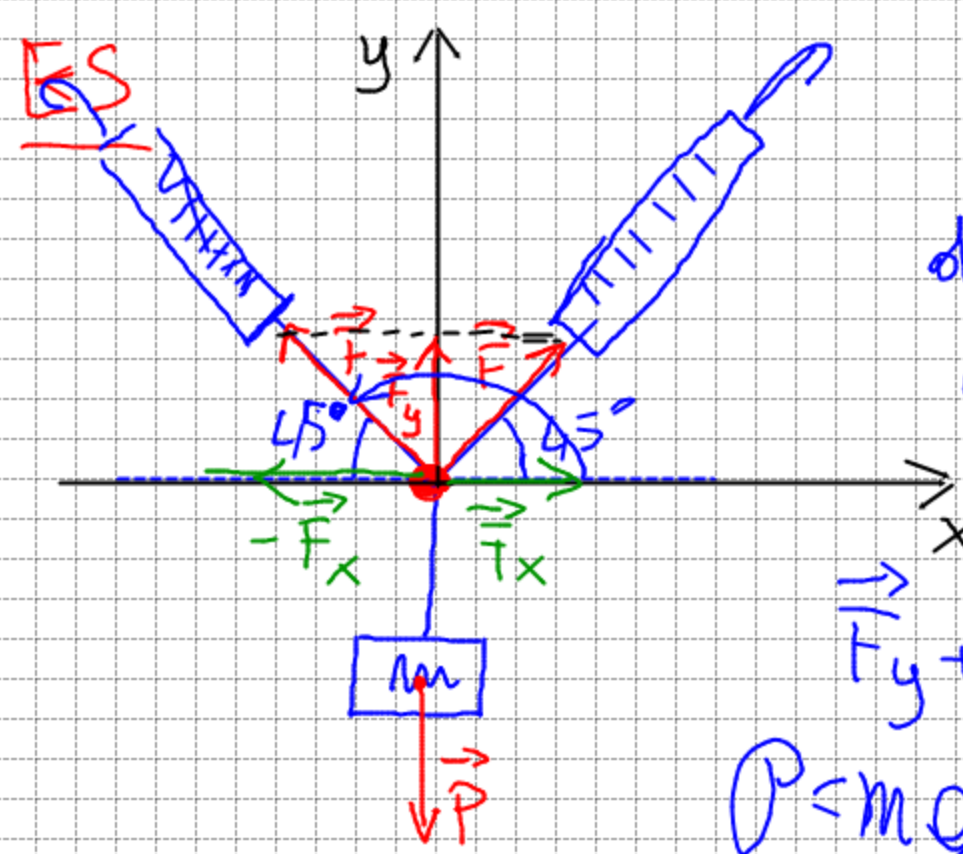
$$R_x = a_x + b_x + c_x$$

$$R_y = a_y + b_y + c_y$$

$$R_x = 8,66u + 4,0u - 6,36u = +6,3u$$

$$R_y = 5,0u - 6,93u - 6,36u = -8,29u$$

$$R = \sqrt{(+6,3)^2 + (-8,29)^2} = \sqrt{39,69 + 68,7241} = 10,47u$$



Quanto segnano i due dinamometri?  
 $m = 1,0 \text{ kg}$

$$\vec{F}_y + \vec{F}_y = \vec{P}$$

$$P = mg = 1,0 \text{ kg} \cdot 9,81 \frac{\text{m}}{\text{s}^2} = 9,81 \text{ N}$$

$$F_y = F \cdot \sin 45 = F \cdot 0,71$$

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$$F \cdot 0,71 + F \cdot 0,71 = 9,81 \text{ N}$$

$$1,42F = 9,81 \text{ N}$$

$$F = \frac{9,81 \text{ N}}{1,42} = 6,9 \text{ N}$$