- $F_1 = 10N$
- $F_2 = 12N$
- $\alpha = 45°$
- $\theta = 30°$
- $F_{1x} = F_1 \cdot \cos\alpha = 10N \cdot \cos(45°) = -7{,}07N$
- $F_{1y} = F_1 \cdot \sin\alpha = 10N \cdot \sin(45°) = 7{,}07N$
- $F_{2x} = F_2 \cdot \cos\theta = 12N \cdot \cos(30°) = 10{,}39N$
- $F_{2y} = F_2 \cdot \sin\theta = 12N \cdot \sin(30°) = 6N$
- $F_{rx} = F_{1x} + F_{2x} = -7{,}07N + 10{,}39N = 3{,}32N$
- $F_{ry} = F_{1y} + F_{2y} = 7{,}07N + 6N = 13{,}07N$
- $F_r = \sqrt{(F_{rx})^2 + (F_{ry})^2} = \sqrt{(3{,}32N)^2 + (13{,}07N)^2} = 13{,}48N$