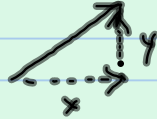


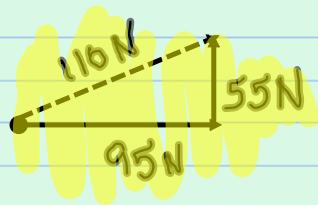
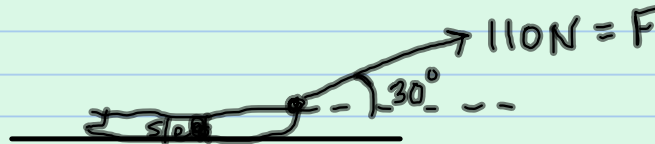
forces - pull + push

draw free body diagrams
- all forces on object

N Newton
 $\text{kg} \cdot \frac{\text{m}}{\text{s}^2}$



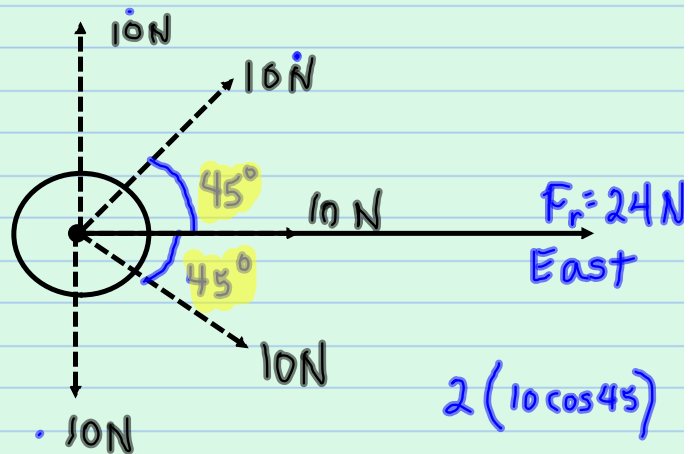
1)



$$F_x = 110 \cos 30 = 95.3 \text{ N}$$

$$F_y = 110 \sin 30 = 55 \text{ N}$$

2) map view



off horiz.

sum up components

$$\sum F_x = 10 \cos 45 + 10 + 10 \cos 45 = 24.14 \text{ N}$$

$$\sum F_y = \cancel{10} + 10 \sin 45 - 10 \sin 45 - \cancel{10} = 0$$