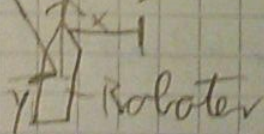
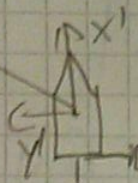


Hindernis



geschätzte neue Sonar range ~~dist~~  $sr'$

sonar range gegeben  $= sr$



$v = \text{lin. Geschw.}$   
 $\omega = \text{Winkelgeschw.}$

$$x' = x + v \cdot \cos(\omega)$$

$$y' = y + v \cdot \sin(\omega)$$

$$\text{dist} = \sqrt{(x')^2 + (y')^2}$$

$$\text{dist}' = \sqrt{sr^2 + \text{dist}^2 - 2 \cdot sr \cdot \text{dist} \cdot \cos(\alpha)}$$