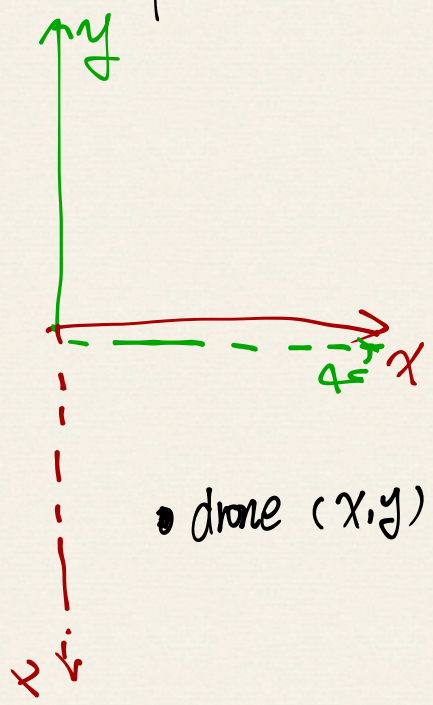
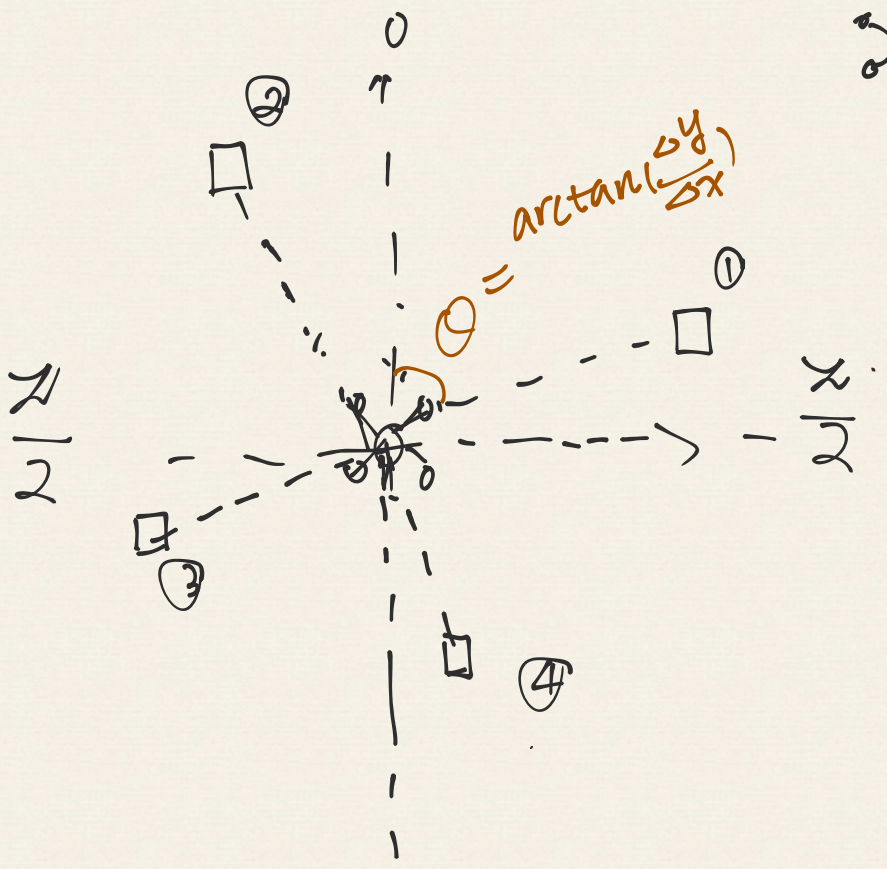
- Coordinates for obstacles: ——
  - - · for the drone: - - - - .



Thus drone coordinates in "obstacle" space:

$$x_{new} = data.y$$
$$y_{new} = -data.x$$



: drone

□: obstacles

①: $-\arctan\left(\frac{\Delta y}{\Delta x}\right)$ } $y_o > y_d$

②: $-\arctan\left(\frac{\Delta y}{\Delta x}\right)$

③: $\frac{\pi}{2} + \arctan\left(\frac{\Delta y}{\Delta x}\right)$ } $y_o < y_d$

④: $\frac{\pi}{2} + \arctan\left(\frac{\Delta y}{\Delta x}\right)$