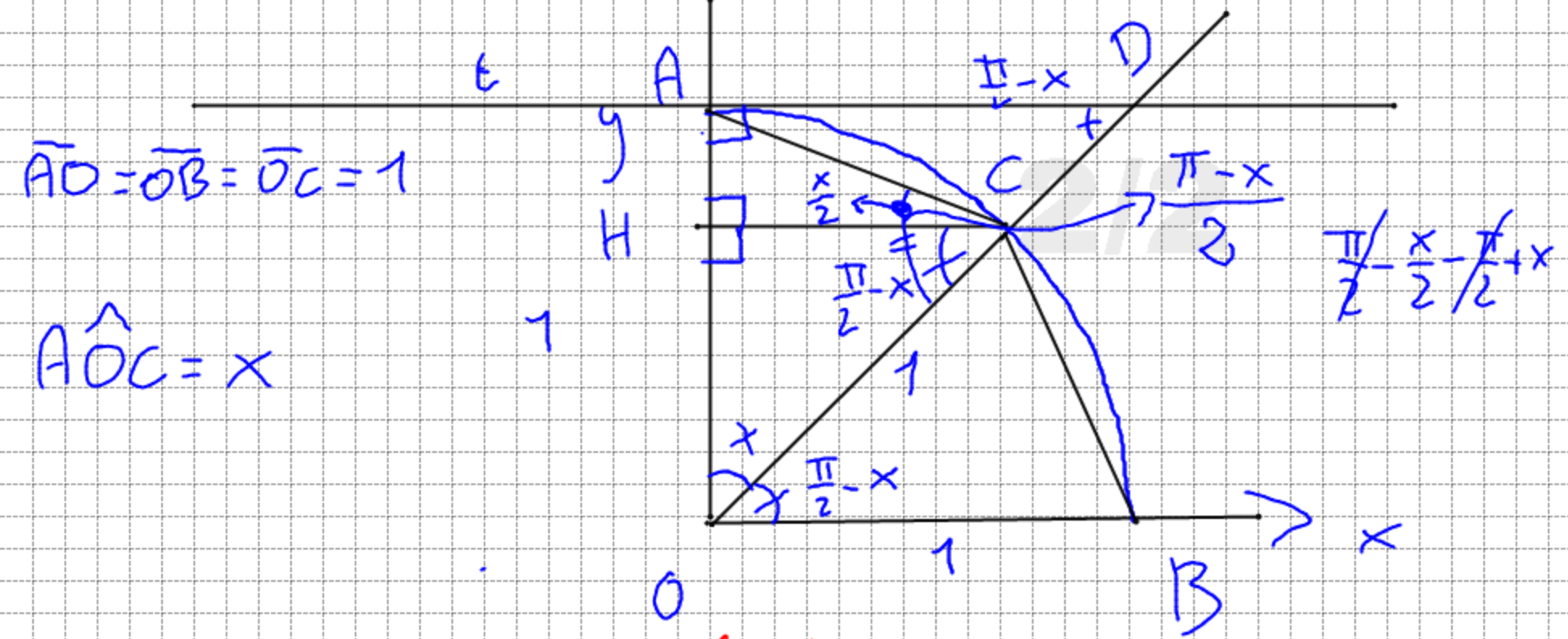


1/2

$$A_{ABC} = \frac{1}{2} c \cdot a \cdot \sin \alpha$$

$$A = \frac{c \cdot h}{2} \rightarrow A = \frac{1}{2} \cdot c \cdot b \cdot \sin \beta$$



$$f(x) = \frac{1}{\sqrt{2}} \overline{AC} \cdot \overline{BC} - 2 \overline{CD} \cdot \overline{OH} + 2 \overline{CH} \cdot \overline{OC}$$

$$\overline{OH} = \cos x \quad \overline{CH} = \sin x$$

$$\overline{AD} = \overline{OA} \tan x \quad \overline{AD} = \tan x$$

$$\overline{AD} = \overline{OD} \sin x \quad \overline{OD} = \frac{\overline{AD}}{\sin x} \rightarrow \overline{OD} = \frac{1}{\cos x}$$

$$\overline{CD} = \overline{OD} - \overline{OC} \quad \overline{CD} = \frac{1}{\cos x} - 1$$

$$\overline{AC} = \frac{\overline{AH}}{\sin \frac{x}{2}} \quad \overline{AC} = \frac{1 - \cos x}{\sin \frac{x}{2}}$$