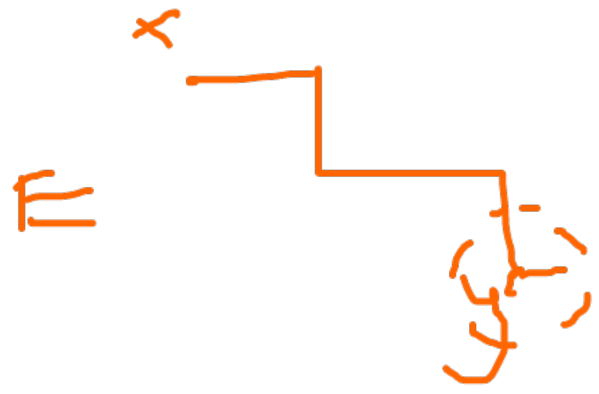
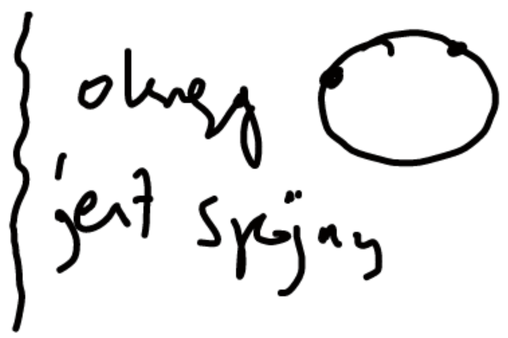






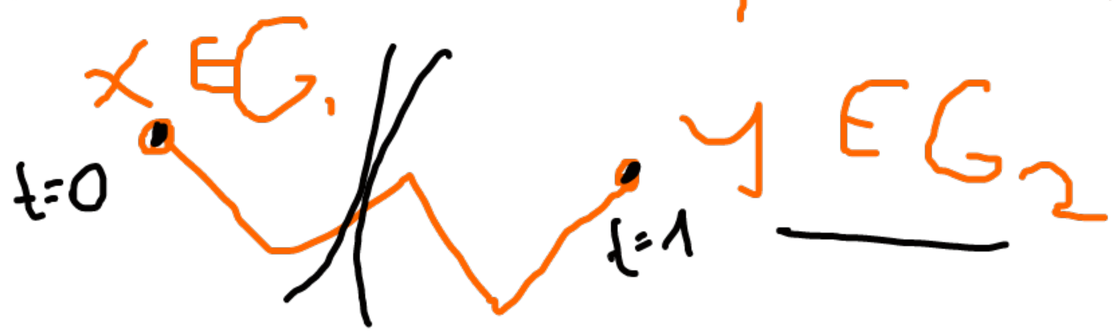

$G = E \cup (G \setminus E)$

jeśli $G$ spójny $\underline{E = \emptyset}$ albo $\underline{G \setminus E = \emptyset}$

wie $x \in E$

($\Leftarrow$)

jeśli $G \setminus E = \emptyset \Rightarrow G = E$




$\gamma : [0,1] \to G$, ciąg.

$\gamma(0) = x$, $\gamma(1) = y$

$G = G_1 \dot\cup G_2$, $G_1, G_2 \neq \emptyset$ $\quad 0 \in \gamma^{-1}(G_1)$, $1 \in \gamma^{-1}(G_2)$

$[0,1] = \gamma^{-1}(G_1) \cup \gamma^{-1}(G_2)$ dwarte $\cup$ $[0,1]$

↯