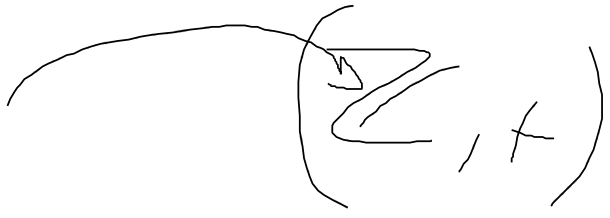


corrispondente

$$3 \cdot \text{penna} - 2 \cdot \text{gamma} \neq f$$

$f \{ \text{penna}, \text{gamma} \}$



$$\text{penna} \mapsto 3$$

$$\text{gamma} \mapsto -2$$

Identifico

$\text{can } f \text{penna}$

$$\begin{aligned} \text{penna} &\mapsto 1 \\ \text{gamma} &\mapsto 0 \end{aligned}$$

$\text{can } f \text{gamma}$

$$\begin{aligned} \text{penna} &\mapsto 0 \\ \text{gamma} &\mapsto 1 \end{aligned}$$

$$f = 3 f \text{penna} - 2 f \text{gamma}$$

corrispondente a
 $- \text{penna} + 5 \text{gamma}$

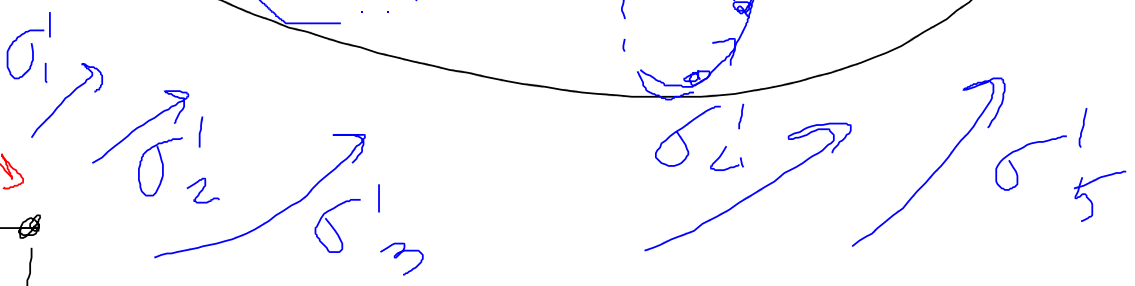
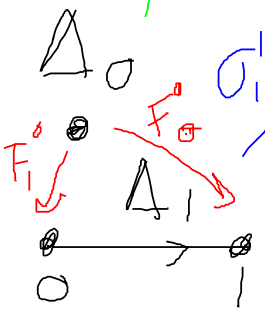
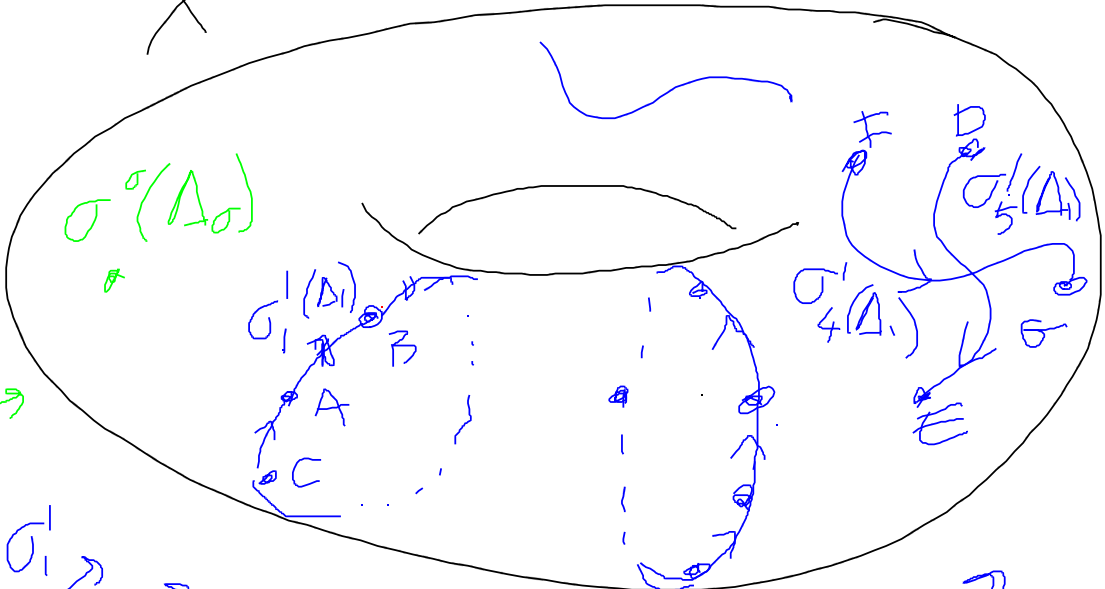
$$\bar{g} = -1 \text{ pennä} + 5 \text{ gommä}$$

$$\bar{f} + \bar{g} = (3-1) \text{ pennä} + (-2+5) \text{ gommä}$$

$$(3 \text{ pennä} - 2 \text{ gommä}) + (-1 \text{ pennä} + 5 \text{ gommä}) =$$

$$= 2 \text{ pennä} + 3 \text{ gommä}$$

X



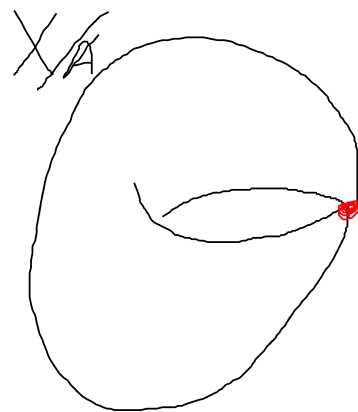
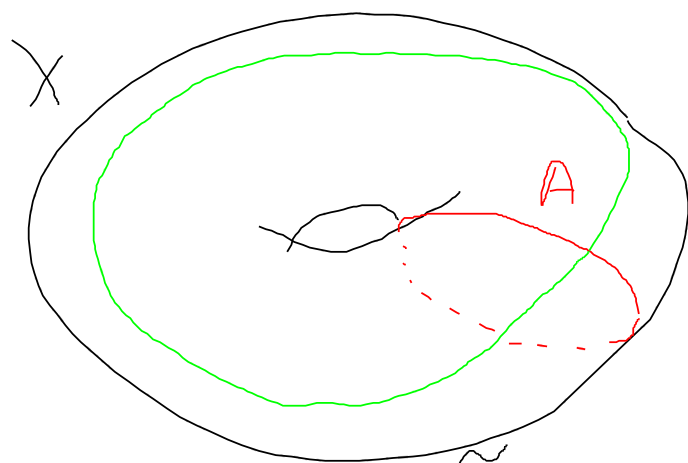
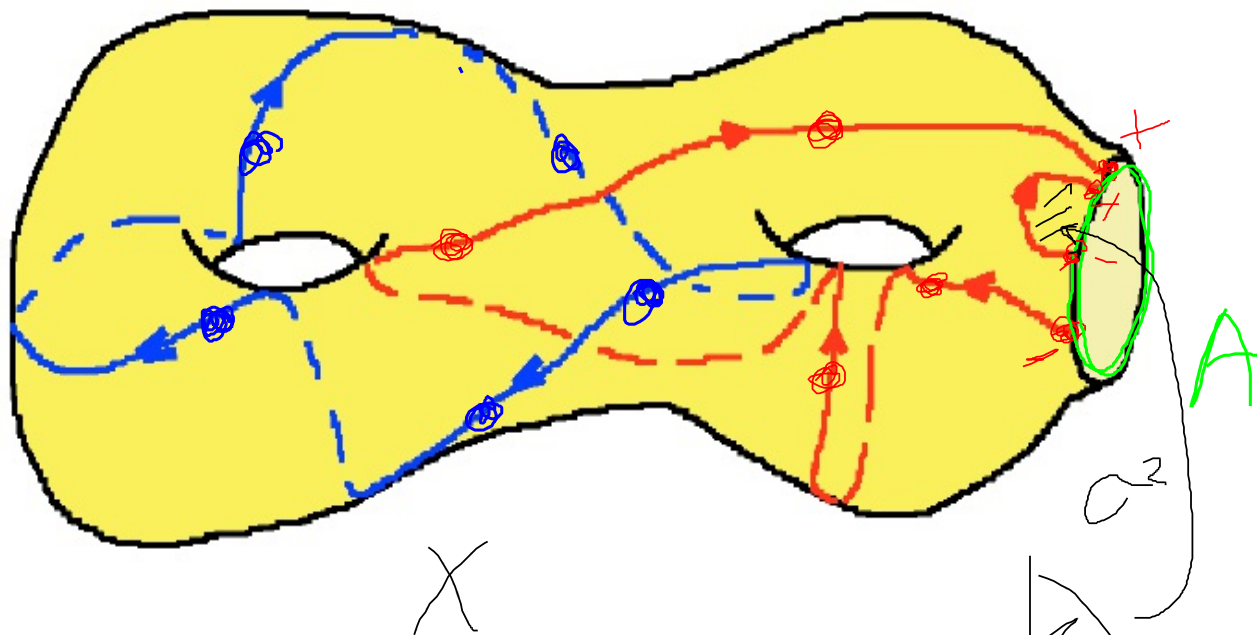
$$\partial(\sigma_1^1 + \sigma_2^1 + \sigma_3^1) = \cancel{B} - \cancel{A} + \cancel{C} - \cancel{B} + \cancel{A} - \cancel{C} = 0$$

$$\partial(\sigma_4^1 + \sigma_5^1) = E - D + G - F \neq 0$$

$$\begin{aligned}
 &= \sum_{s < r} (-1)^{r+s} \sigma \begin{pmatrix} F_r^{k-1} & F_s^{k-2} \\ F_s & F_{r-1} \end{pmatrix} + \sum_{r \leq s} (-1)^{r+s} \sigma F_r^{k-1} F_s^{k-2} = \\
 &= \sum_{s < r} (-1)^{r+s} \sigma \begin{pmatrix} F_s^{k-1} & F_{r-1}^{k-2} \\ F_s & F_{r-1} \end{pmatrix} + \sum_{r \leq s} (-1)^{r+s} \sigma F_r^{k-1} F_s^{k-2} = 0
 \end{aligned}$$

$$\begin{aligned}
 m &= s \\
 n &= r - 1 \quad r = n + 1
 \end{aligned}$$

$$\sum_{\substack{m \leq n+1 \\ m \leq n}} (-1)^{m+n+1} \sigma F_m^{k-1} F_m^{k-2}$$



$$H_k(X, A) \cong \tilde{H}_k(X/A)$$

(sotto opportune ipotesi)

