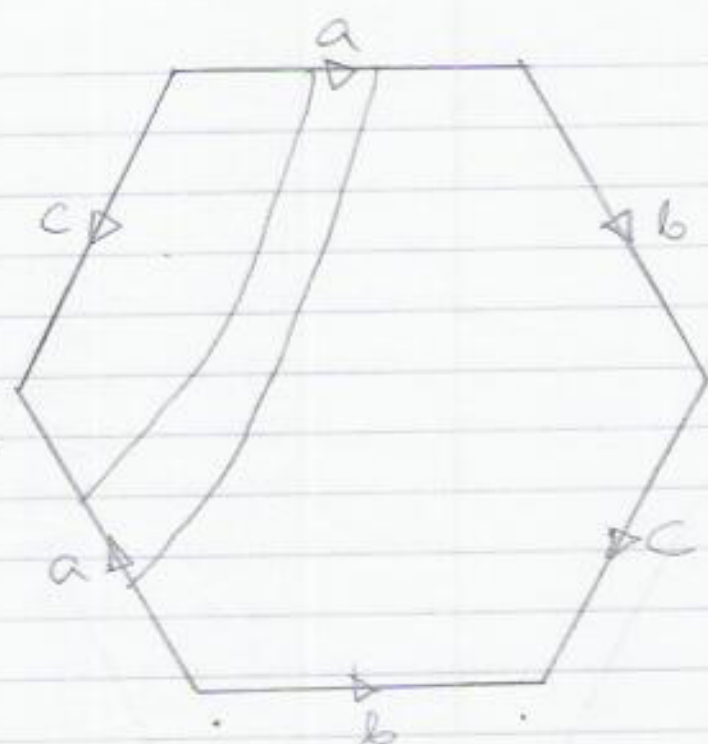
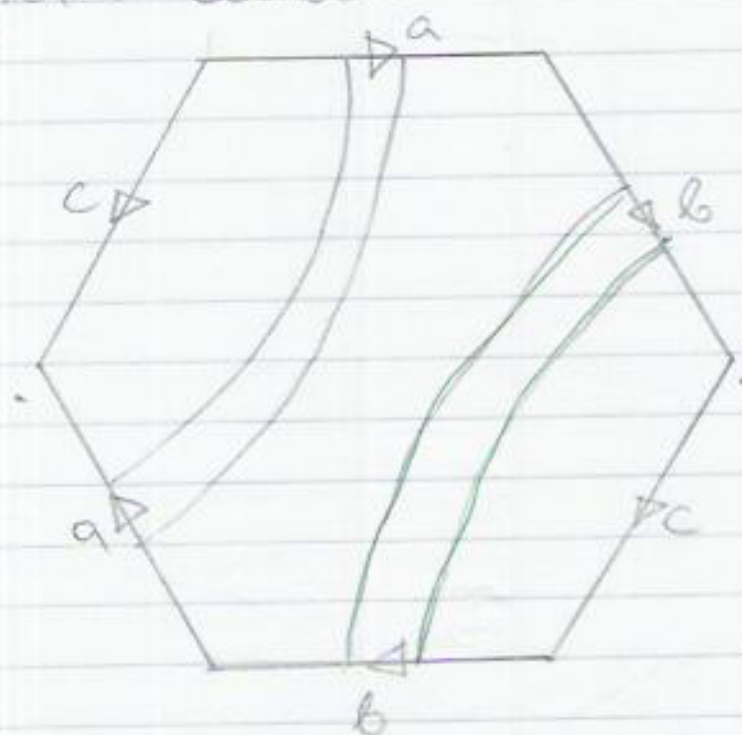


ii) a)



d) There are two ^{simple} contenders for
Möbius bands:



$$7) i) abacbc = 1$$

$$x = ab \Rightarrow xcb^{-1} = a$$

$$xxb^{-1}cbc = 1$$

$$y = cb \Rightarrow c = yb^{-1} \quad \text{(cancel the } b \text{ to get } y = bc)$$

$$xxb^{-1}yyb^{-1} = 1$$

$$z = yyb^{-1} \quad b^{-1} = y^{-1}y^{-1}z$$