

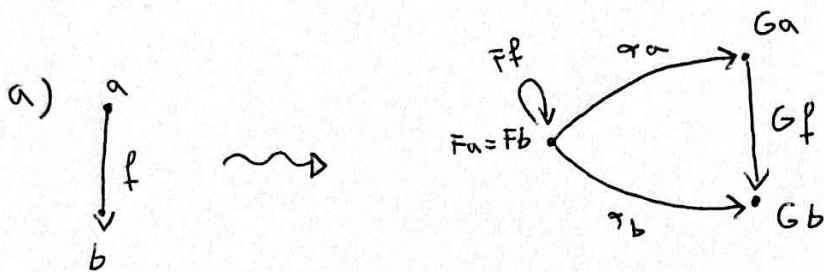
① Consider degenerate cases of the naturality condition where

a) $Fa = Fb$

b) $Fa = Ga$

c) $a = b$

Solution:



but note that since $a = b$ then $\gamma_a = \gamma_b \Rightarrow Ga = Gb \quad \forall$

Thus the diagram boils down to

