

$$\begin{array}{ccccc}
 A \oplus A & \xrightarrow{(f,g)} & X & \xrightarrow[p]{\text{TFib}} & Y \\
 \downarrow (1,1) & & \searrow (\partial_0, \partial_1) & \nearrow & \uparrow h \\
 A & \xleftarrow[\sigma]{\text{Weq}} & & & \tilde{A}
 \end{array}$$

The diagram illustrates a commutative structure involving several objects and maps:

- Top Row:** $A \oplus A \xrightarrow{(f,g)} X \xrightarrow[p]{\text{TFib}} Y$
- Left Vertical Arrow:** $A \oplus A \rightarrow A$ labeled $(1,1)$
- Bottom Row:** $A \xleftarrow[\sigma]{\text{Weq}} \tilde{A}$
- Right Vertical Arrow:** $\tilde{A} \rightarrow Y$ labeled h
- Diagonal Arrows:**
 - A solid arrow from $A \oplus A$ to \tilde{A} labeled (∂_0, ∂_1) .
 - A dashed arrow from \tilde{A} to X .
- Central Label:** The word "Cofib" is placed near the diagonal arrows.