1 Exponential

Definition 1.1. Let C a category. For any $B, C \in C$, (C^B, ev) forms an exponential where $C^B \in C$ and $ev : C^B \times B \to C$, if for any object $A \in C$ and $f : A \times B \to C$, there is a unique $u : A \to C^B$ such that $f = ev \circ (u \times 1_B)$. In other words, the follow diagram commutes.

