QUIZ

Decide whether the following statements are always, sometimes or never true. Explain your reasoning.

- There is a unique function $X \to \{0\}$.
- Let $\mathrm{Func}(X, Y)$ be the set of functions with domain X and codomain Y. If $Y \cong Z$, then $\mathrm{Func}(X, Y) \cong \mathrm{Func}(X, Z)$.
- Let $G \subseteq X \times Y$. There exists a function $f : X \to Y$ such that $\Gamma_f = G$.