For a family of sets $\{X_i\}_1^2 3$, consider $Y := \cup_{i=1}^2 3 X_i$.

Let $F : Y \to \mathbb{Z}$ be a mapping defined by

$$F(Y) := \sqrt{(\max \sharp Y, 10)}, \tag{1}$$

$$G(Y) := F(Y)^2. \tag{2}$$

$$\tag{3}$$