Exercises

3.291 [O9Q] Let n, m be positive integers and let $I = \{1, \dots, n\}, J = \{1, \dots m\}$.

- How many functions $f : I \to J$ are there?
- How many functions $f : I \to J$ are injective?
- How many functions $f : I \to J$ are strictly growing?
- How many functions $f : I \to J$ are weakly increasing?

Solution 1. *[O9R]*