

1. Q — What is the difference between the range of a relation and the co-domain of a relation?

A — The range of a relation are the second elements of each ordered pairs of a relation or the outputs of a relation, and it can be seen that the range is a subset of the co-domain. Whereas the co-domain is a subset of a relation or the possible values of the relation.

2. Q — In the two parts (bullet points) of the definition of function in 1.3, the second one is the part you know from Precalculus. How does this differ from a relation? Do not just quote what it says. I'm looking for you to understand this implication since it's not explicitly stated all the time in Precalculus like the second one is.

A — The first definition implies that an input will always map to an output or that an ordered pair of the domain and the range is guaranteed. On the other hand, a relation's domain doesn't always have to map to each element of it's co-domain.