## Source:

## 1 | well defined def

A function  $f: X \to Y$  is a relation f from X to Y satisfying:

```
1. \forall x \in X, \exists y \in Y s.t. (x,y) \in f (every element of the domain has an image) 2.
```

A function  $\Box:\Box\Box\Box$  is a relation  $\Box$  from  $\Box$  to  $\Box$  satisfying: i).  $\Box\Box\Box\Box,\Box\Box\Box\Box:(\Box,\Box)\Box\Box$  ii).  $\Box\Box\Box\Box,\Box\Box\Box,\Box\Box\Box,\Box\Box\Box$ , $\Box\Box\Box\Box,\Box\Box\Box$ , $\Box\Box\Box\Box$ 

A function is well defined if:

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