

Exercises

3.101 [06V] Prerequisites: [06M], [06S]. (Solved on 2022-11-24) Let (X, \leq) be a directed set. Show that these properties are equivalent:

- (X, \leq) satisfies the *filtering property* [(3.94)],
- (X, \leq) has no maximum,
- (X, \leq) has no maximals.

Solution 1. [06W]