

Exercises

3.219 [082] Prerequisites: [07C], [07D], [07N]. (Solved on 2023-01-17) Let X be a well-ordered set. Show that if $I \subseteq X$ is an interval then $I = [a, b)$ or $I = [a, b]$ or $I = [a, \infty)$ with $a, b \in X$. (The reverse is obviously true).

In particular, an initial segment is $[0_X, b)$ or $[0_X, b]$ or all X .

Solution 1. [083]