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0.1 Limit points and closure

0.1.1 Limit points

A point x in the topological set X is a limit point for $S \subset X$ if every neighbourhood of x contains another point in S.

For example -1 is a limit point for the real numbers where S is [0,1] (or (0,1).

0.1.2 Closure

The closure of a subset of a topological space is the subset itself along with all limit points.

So the closure of |x| < 1 includes -1 and 1.