Deleted neighbourhood

Def

A deleted neighborhood of a point p refers a neighborhood of p without .

Examples

Example 1

Take the set = (i.e. = ) ( that means the set from to exclusive).

The neighborhood of point = :

The deleted neighborhood of point = : =

which is equivalent to difference from neighborhood of to .

Ref

[Neighbourhood (mathematics) - Wikipedia](https://en.wikipedia.org/wiki/Neighbourhood_(mathematics))