



Math for the people, by the people.

## neighborhood retract

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Let  $X$  be a topological space and  $Y$  a subspace of  $X$ . If there exists an open set  $U$  such that  $Y \subset U \subset X$  and  $Y$  is a retract of  $U$ , then we say  $Y$  is a *neighborhood retract* of  $X$ .