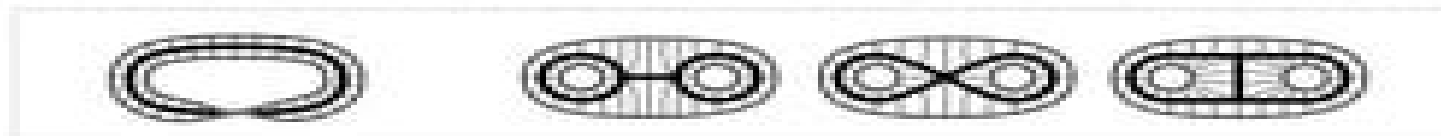


be true if we have each $x \in X - X$ move along its line segment at constant speed so as to reach its image point in X at time $t = 1$, while points $x \in X$ are stationary, as remarked earlier.

Examples of this sort lead to the following general definition. A **deformation retraction** of a space X onto a subspace A is a family of maps $f_t : X \rightarrow X$, $t \in I$, such that $f_0 = \mathbb{I}$ (the identity map), $f_1(X) = A$, and $f_t|_A = \mathbb{I}$ for all t . The family f_t should be continuous in the sense that the associated map $X \times I \rightarrow X$, $(x, t) \mapsto f_t(x)$, is continuous.

It is easy to produce many more examples similar to the letter examples, with the deformation retraction f_t obtained by sliding along line segments. The figure on the left below shows such a deformation retraction of a Möbius band onto its core circle.



The three figures on the right show deformation retractions in which a disk with two smaller open subdisks removed shrinks to three different subspaces.

In all these examples the structure that gives rise to the deformation retraction can be described by means of the following definition. For a map $f : X \rightarrow Y$, the **mapping cylinder** M_f is the quotient space of the disjoint union $(X \times I) \sqcup Y$ obtained by identifying each $(x, 1) \in X \times I$ with $f(x) \in Y$. In the letter examples, the space X is the outer boundary of the thick letter, Y is the thin letter, and $f : X \rightarrow Y$ sends the outer endpoint of each line segment to its inner endpoint. A similar description applies to the other examples. Then it is a general fact that a mapping cylinder M_f deformation retracts to the subspace Y by sliding each point $(x, t) \in M_f$ to the endpoint $f(x) \in Y$. Continuity of this deformation retraction is evident in the specific examples above, and for a general $f : X \rightarrow Y$ it can be verified using Proposition A.17 in the Appendix concerning the interplay between quotient spaces and product spaces.



Not all deformation retractions arise in this simple way from mapping cylinders. For example, the thick X deformation retracts to the thin X , which in turn deformation retracts to the point of intersection of its two crossbars. The net result is a deformation retraction of X onto a point, during which certain pairs of points follow paths that merge before reaching their final destination. Later in this section we will describe a considerably more complicated example, the so-called 'house with two rooms'.

Solutions Of Hatcher Algebraic Topology Exercise 4

TD Snyder



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