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Ex. 0.2. Define H :

$(\mathbb{R}^n - \{0\}) \times I \rightarrow \mathbb{R}^n$

$-\{0\}$ by $H(x,t) =$

$(1-t)x + t|x|^{-1}x$, $x \in$

$\mathbb{R}^n - \{0\}$, $t \in I$. It is

easily verified that

H is a homotopy

between the

identity map and a

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$S_n - 1$, i.e. a deformation

retraction. Ex. 0.3.

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221-237. Allen

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Hatcher, On the boundary curves of incompressible surfaces, Pacific Journal of Mathematics 99 (1982), no. 2, 373–377. William Floyd and Allen Hatcher, Incompressible surfaces in punctured-torus bundles, Topology

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13 (1982), no. 3,
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are often treated lightly or skipped entirely in the body of the text. Not included in this book is the important but somewhat more sophisticated topic of spectral sequences.

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Allen Hatcher is an American research mathematician and author currently at Cornell University.

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Theorem Problem

1. Suppose G and

H are nontrivial

groups. Suppose

$x = g_1 h_1 \cdots g_n h_n$

lies in the center of

$G * H$, where g_i

$\in G$ and $h_i \in H$. For

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any $g \in G \setminus H$, we

have $g g^{-1} h^{-1} \cdots g$

$h^{-1} g^{-1} h^{-1} \cdots g^{-1}$

$h^{-1} g^{-1} h^{-1} \cdots h^{-1} g^{-1}$

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