

# Solutions to *Algebraic Topology*\*

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## 1 The Fundamental Group

### 1.1 Basic Constructions

3. **Exercise.** For a path-connected space  $X$ , show that  $\pi_1(X)$  is Abelian if and only if all basepoint-change homomorphisms  $\beta_h$  depend only on the endpoints of the path  $h$ .

**Solution.** Suppose that for any two paths  $g$  and  $h$  from  $x_0$  to  $x_1$ , the isomorphisms  $\pi_1(X, x_0) \rightarrow \pi_1(X, x_1)$  given by  $f \mapsto g^{-1}fg$  and  $f \mapsto h^{-1}fh$  are the same. Now choose  $f, f' \in \pi_1(X, x_0)$ . We wish to show that  $f'f = ff'$ . Note that  $f'$  is homotopy equivalent to a composition  $gh^{-1}$ , where  $g$  and  $h$  are paths from  $x_0$  to  $x_1$ , for the following reason. We can pick any point  $y$  on the path  $f'$  and let  $p$  be a path from  $y$  to  $x_1$ . Then the path from  $x_0$  to  $y$  along  $f'$  composed with  $p$  is the desired  $g$ , and  $p^{-1}$  composed with the path from  $y$  to  $x_0$  along  $f'$  is the desired

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\*by Allen Hatcher

# Hatcher Solution Guide

**Patrick Vollmar**



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