

**Additional hints for problems in aabUpdate12.145B.s17.pdf**

4. Compare the fundamental groups of the two spaces.
2. First show that a reduced edge path joining two distinct vertices is homeomorphic to a closed interval. Now let  $\{v_0, \dots, v_m\}$  be the vertices of the graph, and explain why the first sentence implies that the graph is homeomorphic to a quotient of a star shaped graph with the same vertices and edges of the form  $v_0v_j$  where  $1 \leq j \leq m$ . Finally, show that the star shaped graph is a quotient of a closed interval using the hint in aabUpdate12.145B.s17.pdf.