Problem 1.

Let T be the torus $S^1 \times S^1$ and let T' be T with a small open disk removed. Let X be obtained from T by attaching two copies of T', identifying their boundary circles with the longitude and meridian circles $S^1 \times \{x_0\}$ and $\{x_0\} \times S^1$ in T. Find a presentation for $\pi_1(X)$.

Solution.

this is a solution

Problem 2.

My problem

Solution.

Exercise (S+S 1.3). *yolo*