

Geom/Top: Homework 9 (due Monday, 12/10/12)

1. Read Farb notes.
2. Read along in Hatcher.

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1. Hatcher, §1.2, Problems 4,10, 22.
 2. Hatcher §1.3 Problems 4,9,10, 14.
 3. Let S_g be a surface of genus $g \geq 0$. Let $\Delta \subset S_g \times S_g$ be the image of the diagonal embedding $x \mapsto (x, x)$. Let X be the complement of Δ in $S_g \times S_g$. Compute $\pi_1(X)$.