

MATH 635 HOMEWORK 4
DUE FEBRUARY 5, 2021.
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- (1) Hatcher 2.2.22 (p. 157).
- (2) Hatcher 2.2.23 (p. 157). (This is a special case of the Riemann-Hurwitz Formula (over $\mathbb{C}$), which includes branched covers. The proof of the Riemann-Hurwitz formula is not any harder.)
- (3) Hatcher 3.1.7 (p. 205).
- (4) Hatcher 3.1.8 (p. 205).
- (5) Hatcher 3.1.10 (p. 205). Skip the part about the universal coefficient theorem (for now).

Suggested review / qualifying exam practice (not to turn in):

- (1) Hatcher 2.2.20, 2.2.21, 2.2.25,
- (2) Hatcher 3.1.1, 3.1.4, 3.1.6, 3.1.5, 3.1.13.

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