

**MATH 635 HOMEWORK 3**  
**DUE JANUARY 30, 2019.**

INSTRUCTOR: ROBERT LIPSHITZ

Problems to turn in:

- (1) Hatcher 2.2.35 (p. 158).
- (2) Hatcher 2.2.36 (p. 158).
- (3) Hatcher 2.3.1 (p. 165).
- (4) Hatcher 2.3.3 (p. 165).
- (5) Hatcher 3.1.7 (p. 205).

Review / qualifying exam practice (not to turn in):

- (1) Hatcher 3.1.8, 3.1.10, 1.1.16, 1.1.17, 1.2.14, 1.2.19, 1.3.16, 1.3.21.

More problems to think about but not turn in:

- (1) Read the rest of the problems in Section 2.3 and solve any that seem challenging or interesting.

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