

**Individual Homework #5: Due in class Friday, February 22**

Again: for this and all homework assignments, please adhere to “Homework Assignment Guidelines” link under the “General Information” header of our course page.

**Assignment:** Please read Sections 2.6 and 3.1. Then please **do**, and hand in, the following exercises from these sections.

- (a) **Section 2.6, Part 1: The microscope equation for functions defined by simple formulas** (pages 119–120): Exercises 1–3, 7.
- (b) **Section 2.6, Part 2: The microscope equation for functions defined incompletely** (pages 120–121): Exercises 9abc, 11, 14.
- (c) **Section 2.6, Part 3: The microscope equation and the chain rule** (pages 122): Exercise 18.
- (d) **Section 3.1, Part 2: Differentiating exponential functions** (page 131): Exercise 3cdghij.
- (e) **Section 3.1, Part 3: Powers of  $e$**  (page 132): Exercise 4bcef.
- (f) **Section 3.1, Part 4: Solving  $y' = ky$  using  $e^t$**  (pages 132–133): Exercises 5, 7, 8.