

This exam covers Chapters 3 and 4. In particular, the exam will focus on the topics listed below.

- constant relative rate of growth (or decay) and exponential functions
- exponential and logistic models
- logarithms as inverses of exponentials
- solving equations involving exponentials and logarithms
- right triangle trigonometry
- unit circle trigonometry (know the 16-point unit circle!)
- modeling with sinusoids
- understanding tangent, secant, cotangent, and cosecant in terms of sine and cosine

The review exercises (selected from a section in the book or the chapter reviews (abbreviated 3R and 4R) at the end of Chapters 3 and 4) are below. These problems are due Mon Apr 2 at the beginning of class, and they will be graded for completion.

|     |                                    |
|-----|------------------------------------|
| 3.5 | 1-9                                |
| 3R  | 3, 13, 19, 25, 59-62, 71, 81, 93   |
| 4R  | 29-30, 33, 41, 56, 49-52, 101, 106 |

In addition, I recommend that you review the in-class exercises.