

Review Sheet for Final Exam

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The final exam will be Wednesday, March 21, 2:00 PM in Weniger 377. There will be some questions of the sort in which you are asked to describe, define, or explain things as well as some calculations to do. The exam will cover material from the entire quarter but will concentrate on material covered since the last midterm. In addition to the material on the last review sheet, you should study the following.

Look at the following review questions from Ta-Pei Cheng's text.

Chapter 8, Questions 8 – 11

Chapter 9, Questions 2, 3, 4, 5, 8, 9, 11, 12, 13,16

Use the Friedman equations to calculate $a(t)$ and $T(t)$ for various scenarios such as an empty universe, inflation, cosmological constant-dominated, matter-dominated, or radiation-dominated universes. Be prepared to discuss how these things relate to nucleosynthesis and photon decoupling. Be able to define and discuss proper distance, luminosity distance and angular-diameter distance.

You should memorize definitions, but all other equations will be provided.