Review for Midterm Exam #1

October 7, 2002

Announcements

- The first exam is on Weds.
 - details in a moment
- There will be an extra credit problem due this Friday
 - work on it after the exam
- I will be out of town starting tomorrow
 - See Prof. Hagopian (Keen 517) or Prof.
 Blessing (Keen 508) if you have questions
 - Prof. Hagopian will administer the exam on Weds.

The Exam

- Approximately 40 multiple choice & true-false questions
 - one point for correctly filling in your name and social security number
- Covers "everything" up to now
 - Chapters 1-3, 4-11
- Some questions are directly from the homework and quizzes
- Attempt to test "understanding" and "knowing", not memorization
- Bring a No. 2 pencil, calculator and FSU ID card
- No books or notes

Equations

- This information will be provided for you on the exam:
 - $c = 3 \times 10^8 \text{ m/s}$ (speed of light)
 - $(P_{years})^2 = (A_{AU})^3$

$$F = G \frac{M_1 M_2}{r^2}$$

• 1 year = 3.2×10^7 seconds

Topic on Exam #1

- Scientific Method
- Powers of Ten
- Lightyear, AU
- Motion in the sky
- Motion of the Sun, planets, Moon
- Kepler's Laws
- Newton's Laws
- Mass, velocity, acceleration
- Gravity
- Seasons
- Moon's phases
- Eclipses
- Geological activity
 - volcanism and tectonics

- Craters
- Atmospheres
- Greenhouse effects
- Solar system formation
- Inner planets
 - geology and atmospheres
- Outer planets
 - compositions, orbits, rotation, atmospheres
- Planetary interiors
- Rings
- Moons To and Europa
- Asteroids, comets
- NEAR and Eros