Solutions To Homework 1 Ast 203 Spring 2009

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Solutions To Homework 1 Ast
speed of light. One mile is 1:6 km = 1:6 103 m. So, we now have 1) Manhattan: d = 50 miles, t round trip = (2 50 miles 1:6 1103 m=mile)=3 108 m=sec = 5:3 10 4 sec = 5 10 msec to one signi cant gure, where we abbreviated milliseconds as \msec," and used 1 msec = 10 3 sec. The answer is half a millisecond. Pretty fast! 2) San Francisco: d = 2600 miles, t

Solutions to Homework #1, AST 203, Spring 2009
Solutions to Homework #1, AST 203, Spring 2019 General grading rules: One point off per question (e.g., 2a or 2b) for egregiously ignoring the admonition to write in full sentences. One point off per question for inappropriately high precision, e.g., 3 or more significant figures when only one is appropriate.

Homework_1_soln.pdf - Solutions to Homework#1 AST 203 ...
Solution: The wavelength of a transition from level nto n 1 is: = 912 A 1=(n 1)2 1=n2 ˇ912 A n3 2; where the approximation is valid for large n; see below how this approximation was done. If we set the above expression equal to 1 cm, or 108 A, we nd n3 ˇ2 105, or nˇ60. The Bohr

Homework #1 solutions, AST 303, Fall 2016
ASTR 3220 - Homework 1 Solutions. 1. E-mail (0 points; OPTIONAL, but strongly recommended) - No solution needed. 2. ASTR 3220 Web Page (2 points) - (a) What distance did Hipparcos find for the Pleaides, in light years? How far is this in parsecs? Ans: Hipparcos found a distance of 375 light years (ly). Since 1 pc = 3.26 ly, this equates to (375 ...

ASTR 3220 Homework 1 Solutions - University of Colorado ...
Time = Distance/Velocity, so the light-travel time from the Sun to the Earth is 1AU/c = 1.5 x 10 13 cm/3 x 10 cm/s = 500 s = about 8 minutes. The speed of light is c = 3 x 10 10 cm/s. How fast do X-rays with a wavelength of 10 -6 cm travel in space?

AST301 HOMEWORK #1 SOLUTIONS
1 as t!1 7. Find the solution of the given initial value problem and describe the behavior of the solution as t!1: x0= 1 5 1 3 x; x(0) = 1 1 Solution: At rst, let us nd the eigenvalues and eigenvectors of the coe cient matrix Aas follows: det(A rI) = 0) 1 r 5 1 3 r = 0)r 2 + 2r+ 2 = 0: The solutions to the quadratic equation, or simply the ...

Math 331 Homework Assignment Chapter 7 Page 1 of 9 ...
Solution to Homework 7, Problem 1 Parts a.-k. - Original design Part l. - Redesign Design parameters Design flow rate Q 0.0088 m3/s Reactor volume V 25 m3 Influent COD concentration S in 300 mg COD/L Solids concentration of recycled sludge X R 12000 mg VSS/L Clarified effluent from secondary clarifier X e 15 mg VSS/L Safety factor SF 20

Solution to Homework 7, Problem 1 - MIT OpenCourseWare
Solutions to Homework #6, AST 203, Spring 2009 Due in class (i.e., by 4:20 pm), Thursday April 30 (last lecture of the course) General grading rules: One point o per question (e.g., 1a or 1b) for egregiously ignoring

Solutions to Homework #6, AST 203, Spring 2009
1:M 4ˇr3=3 = 1:4 2 3010 kg 3 6: 106 m3=3 = 2 109 kg=m3 The mass in the teaspoon is then ˆ WD V teaspoon = 2 109kg=m3 10 6m3 = 2 103 kg ˇ2 tons. b) Calculate the mass density of a neutron and compare it to the mean density of NS. A neutron can be considered as a sphere of radius 1 femto-meter (10 15 m). (6 points) Solution:

Solutions to Homework #4, AST 203, Spring 2012
Solution To calculate the mass of the teaspoon worth of NS material, we start with computing the mean density of the star. We know that 1.4 M is con ned within a sphere of radius 10 km: ˆ NS = M NS Volume of NS = 1:4M 4ˇr3=3 = 1:4 302 10 kg 4 3 104 m3=3 = 7 1017 kg=m3: The mass in the teaspoon is then ˆ NS 17V teaspoon = 7 310 kg=m 10 6m3 = 7 1011 kg ˇ1 billion tons. For the WD, we use the same formula, but plug in 1M

Solutions to Homework #4, AST 203, Spring 2009
Astronomy 1002 Fall 2002 Section 1 Homework These problems come primarily from the book and are chosen to test your understanding of the material. They are not collected nor are they worth credit in the course. It is recommended that you do them as this will help you prepare for the quizzes and the exams. Answers will be posted each week.

AST 1002 Section 1 Homework - Florida State University
Solutions to Week 2 Homework ASSIGNMENT 4. 2.2.11. xdx+ ye x dy= 0; y(0) = 1 (a) Find the solution of the given initial value problem in explicit form. Multiplying through by ex separates the variables: xex dx+ ydy= 0: We can now integrate. We can integrate xex dxby parts, with u= xand dv= ex dx. We have du= dxand v= ex. Integration by parts ...

Solutions to Week 2 Homework - Purdue University
Solutions to Homework #2, AST 203, Spring 2019 General grading rules: One point off per question (e.g., 2a or 2b) for egregiously ignoring the admonition to write in full sentences. One point off per question for inappropriately high precision, e.g., 3 or more significant figures when only one is appropriate.

Homework_2_soln.pdf - Solutions to Homework#2 AST 203 ...
View Homework Help - Homework_2_soln_2016 from AST 203 at Princeton University. Solutions to Homework #2, AST 203, Spring 2016 General grading rules: One point off per question (e.g., 2a or 2b) for

Homework_2_soln_2016 - Solutions to Homework#2 AST 203 ...
Astro-682 Spring 2005 Homework 4: Solution 1. Friedmann’s equation is a˙ a 2 = 8πGϱ(t) 3c2 − kc2 R2 0a2(t). (1) For the case when the universe contains matter with negligible pressure only, the energy density changes as ϱ(t) = ϱ0/a3(t). Multiplying by a2(t), we have (˙a)2 = 8πGϱ0 3c2a − kc2 R2 0. (2)

Astro-682 Spring 2005 Homework 4: Solution
Answer to: Solve for V. V = \frac{1}{3} \ast 6300 \ast 7 By signing up, you'll get thousands of step-by-step solutions to your homework questions.... for Teachers for Schools for Working Scholars ...

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AST 248: Search for Life in the Universe Homework Assignments Fall 2019 Updated 6 December 2019 . Assigned readings are listed in the syllabus..

Homework assignments will neither be collected nor graded.

AST 248: Homework Assignments
July 1, 2013 Solutions for Homework #3 are posted. Homework #4 is also posted. Remeber that Homework #4 WILL NOT BE ACCEPTED LATE. June 26, 2013 Midterm grades are posted. On Homework #3, please complete Chapter 11 #39, not #38. June 24, 2013 Homework #3 is posted below. I will post midterm grades as soon as I have them, but the solutions will ...

Kyle Neary - UMN Astronomy - Ast 1001
AST 418/518, Fall 2016 Homework 3 Solutions 1. Malmquist Bias Simulation. We want to understand how brightness limits affect the use of supernovae observations in the measurement of the Hubble constant, H_0. To do so, we will use Monte Carlo computations to generate a set of simulated data. For this simulation, we make the

Homework 3 Solutions - University of Arizona
View Notes - 307_F09_hwsol02 from AST 307 at University of Texas, Tyler. Solutions to Homework Set #2 AST 307, Fall 2009 Prof. G. Shields 3.1) See Special Topic Eratosthenes Measures Earth on p. 67