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General Relativity Homework 3
Solutions 1. Carroll Problem 3.5.

Consider a 2-sphere with coordinates

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(θ, ϕ) and metric $ds^2 = d\theta^2 + \sin^2 \theta d\phi^2$. (a) Show that lines of constant longitude ($\phi = \text{constant}$) are geodesics, and that the only line of constant latitude ($\theta = \text{constant}$) that is a geodesic is the equator ($\theta = \pi/2$).

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General Relativity Homework
Assignment 3 Solutions Question 1
(7points).

Imaginewehaveatensor(matrix) X
andavector V ,withcomponents $X = 0$ B
B @ 2 0 1 1 1 0 3 2 1 1 0 0 2 1 1 2 1

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C C A; $V = (1; 2; 0; 2)$: (1) Assuming that these two objects live in flat spacetime with a Minkowski metric, find the components of: (a) X

Solutions: $X = X = 0$ B B @ 2 0 1 1 1 0
3 2 1 1 0 0 2 1 1 2 1

Physics 480/581 General Relativity

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General Relativity (GR) is one of the most beautiful theory ever invented! At its core, it links a phenomenon that we all experience -- gravity -- to the nature of spacetime itself and the energy and matter it contains. ...

Homework 3: 09/04: Homework 3
Solutions: Week 4 09/7-09/11:

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09/09: Zoom: No Class on 09/07
(Labor Day) Tensors: 09/09 ...

PHYS 480/581: General Relativity -
Physics and Astronomy

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2010 at University of Colorado,

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Boulder. ASTR 2010 Cosmology
Homework #3 Due Friday, October
19, in class 1] General Relativity:
What is the

[homework3_solutions - ASTR 2010
Cosmology Homework#3 Due ...](#)

The course began relatively slowly,

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and picked up pace toward the end. The homeworks reflect this. The main course textbook was Bernard Schutz' A First Course in General Relativity and a few of the homework problems came from the text. All Solutions .

Homework 1; Homework 2;
Homework 3; Homework 4;

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Homework 5; Homework 6;
Homework 7; Homework 8

Solutions to Problems in General
Relativity

Physics 225a, General Relativity, Fall
2013: Homework and Solutions;
Homework: Solutions: Problem Set 01

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Solution Set 01 : Problem Set 02
Solution Set 02

Physics 225a, General Relativity, Fall
2013: Homework and ...

Question: Special Relativity

Question: Due To The Pandemic A And
B Learned To Cut One Another's Hair,

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And Each Needs A Haircut Every 0.6 Years. However, B Still Lives In New York City While A Has Got An Internship On A Small Space Station 0.3 Light Years Away. One Day, After A And AB Attempt To Cut Their Own Hair With Disastrous Results, B Decides To Hop On A ...

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Special Relativity Question:Due To The
Pandemic A ...

In general relativity, an exact solution is a Lorentzian manifold equipped with tensor fields modeling states of ordinary matter, such as a fluid, or classical non-gravitational fields such

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as the electromagnetic field
Background and definition. These
tensor fields should obey any ...

[Exact solutions in general relativity -
Wikipedia](#)

Homework Solutions Problem set
solutions will appear here shortly

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after the homework is due. Homework
1 solutions: homework 1 solutions
(PDF) Homework 2 solutions
homework 2 solutions (PDF)
Homework 3 solutions homework 3
solutions (PDF) Exams The midterm
will be an in-class exam (1h 20m
long) given during week 6.

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PHYSICS 432/750: COSMOLOGY

General Relativity Homework 3
Solutions This is likewise one of the
factors by obtaining the soft
documents of this general relativity
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spend to go to the book creation as well as search for them. In some cases, you likewise reach not discover the pronouncement general ...

General Relativity Homework 3 Solutions

General relativity. Gravity gradients,

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the Ricci tensor, and the field equations ... Homework 3: due 10/24/12 Homework 4: due 10/31/12 Homework 5: due 11 ... your own notes taken in class or elsewhere, and your returned homeworks and solution sets. You may not consult other references

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(papers, books, ...

Ph 236: General Relativity - TAPIR at
Caltech

Physics 236a: General Relativity Fall
2015 Course Description We
introduce the basics of classical
general relativity, starting from

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special relativity, through curved spacetime and Einstein's field equations, to some applications such as the physics of black holes.

Physics 236a Fall 2015 - TAPIR at
Caltech

Bernard F. Schutz [AEI/ Cardiff] A first

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course in general relativity
(Cambridge University Press, 1990).
w/ Solutions to some problems James
B. Hartle , Gravity: An Introduction to
Einstein's General Relativity (Addison-
Wesley, 2003).

PHZ 6607 -- Special and General

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Relativity -- Fall 2016

Lecture Notes on General Relativity
Matthias Blau Albert Einstein Center
for Fundamental Physics Institut für
Theoretische Physik Universität
CH-3012 Bern, Switzerland ... 24.7
Interior Solution for a Static Star and
the TOV Equation 516

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Lecture Notes on General Relativity - Portal

The Facts: Lecture: T,TR 5-6:15pm in
CoorsTek 140 Text: "Spacetime and
Geometry: An Introduction to General
Relativity" by Sean Carroll Alex's
Office Hours: Monday 7-9:30pm in

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CK188 (Yup that's the student lounge), Tuesday 6:15-7pm in CK327, Wednesday 2-4pm in CK327 and Thursday 6:15-7pm in CK327.

Grading: Your grade will be based on lecture participation (10%), homework (50%), an in-class ...

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General Relativity - Today at Mines

General Relativity Fall 2019

Homework 4 solutions Exercise 1:

Index manipulation (i) If the tensor T is symmetric, show that $T = T \cdot T = g T$ [by definition] = $g T$ [T is symmetric] = T [by definition]: (1) (ii) Given a rank (0,2) tensor T , what is the rank of the

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tensor $T^{\mu\nu} = T^{\nu\mu}$?

General Relativity Fall 2019

Homework 4 solutions

General Relativity Fall 2019

Homework 2 solutions ... and no
primes for the general coordinates),
we arrive at the geodesic equation

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with $\Gamma^{\alpha}_{\beta\gamma} = \frac{1}{2}g^{\alpha\delta}(\partial_{\beta}g_{\delta\gamma} + \partial_{\gamma}g_{\delta\beta} - \partial_{\delta}g_{\beta\gamma})$: (2) Show that this is indeed identical to the Christoffel symbol $\Gamma^{\alpha}_{\beta\gamma}$ since ξ^{α} is an ICS. Changing coordinates, we have $g'_{\alpha\beta} = \frac{\partial x^{\mu}}{\partial x'^{\alpha}} \frac{\partial x^{\nu}}{\partial x'^{\beta}} g_{\mu\nu}$: (3) Taking the derivative with ...

General Relativity Fall 2019

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Homework 2 solutions

Time and Place. Mayer Hall 5301

Monday and Wednesday, 12:30- 1:50

. Grading. There will be a homework assigned every 2-3 weeks

(approximately) There will be a final project or take home exam Grade will be a combination of 60% homework,

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30% final project/exam, 10% participation Office Hours. Monday & Wednesday: 4pm With: Prof. Grinstein Mayer Hall 5230 Office hours will continue until the ...

Phys 225B - General Relativity
to mathematical and physical aspects

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of General Relativity, starting with her epoch-making 1952 proof of the well-posedness of the Cauchy problem for Einstein ' s equations. We are all very fortunate that she has undertaken to present, in terms accessible to all, a comprehensive account of all the aspects of General Relativity. Indeed,

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this ...

Introduction to General Relativity,
Black Holes and Cosmology

Numerical relativity is one of the
branches of general relativity that
uses numerical methods and
algorithms to solve and analyze

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problems. To this end, supercomputers are often employed to study black holes, gravitational waves, neutron stars and many other phenomena governed by Einstein's theory of general relativity. A currently active field of research in numerical relativity is the ...

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