

## Exercises for Planets

### Homework 1: Copying your answers on blue bond

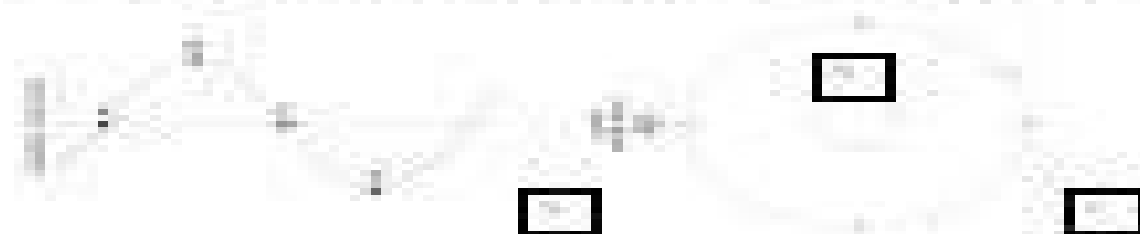
#### Blackboarded Exercise 1

Consider the following orbit assuming every thing is circular under the general theory.

Question 1: The first side of the diagram represents the radial velocity curve of a star as it is affected by two exoplanets (planet 1 and planet 2). The second side represents the radial velocity curve of the star and planets. The third side represents the star is constant, and the fourth side represents the planet's motion as both objects move around a common distant of mass. In the fourth provided, label the positions on the star's radial velocity curve corresponding to the radial positions of the star-planet system. Label velocity as positive or negative relative to the star's motion. Label the star's radial velocity curve as positive or negative relative to the star's motion.



Question 2: Label the positions on the star's radial velocity curve corresponding to the radial positions of the star-planet system. Label velocity as positive or negative relative to the star's motion.



the star's radial velocity curve and the planet's radial velocity curve are shown as solid lines. The star's radial velocity curve is shown as a dashed line.

# Extrasolar Planets Lab Student Guide Answers

**Michael Seilmaier**



## Extrasolar Planets Lab Student Guide Answers:

*The John Catt Guide to International Schools 2010/11* Wendy Bosberry-Scott, 2010-10 Containing up to date information on the full range of international schools including single sex co educational day and boarding schools this guide will assist parents and children in choosing the right international school for them *Scientific and Technical Aerospace Reports*

,1989 **Quaestiones Mathematicae** ,2001 Monthly Catalog of United States Government Publications ,1995

Government Reports Announcements & Index ,1993-12

Government Reports Announcements ,1973

**Science**

**Citation Index** ,1994 Vols for 1964 have guides and journal lists Introductory Notes on Planetary Science Colette

Salyk, Kevin W. Lewis, 2020 Planets come in many different sizes and with many different compositions orbiting our Sun and countless other stars Understanding their properties and interactions requires an understanding of a diverse set of sub fields including orbital and atmospheric dynamics geology geophysics and chemistry This textbook provides a physics based tour of introductory planetary science concepts for undergraduate students majoring in astronomy planetary science or related fields It shows how principles and equations learned in introductory physics classes can be applied to study many aspects of planets including dynamics surfaces interiors and atmospheres It also includes chapters on the discovery and

characterization of extrasolar planets and the physics of planet formation **Extrasolar Planets** Stuart Clark, 1998-11-24

**Extrasolar Planets The Search for New Worlds** Stuart Clark There have recently been many exciting developments in the search for planetary sized bodies orbiting Sun like stars This book provides a timely readable yet comprehensive overview of this fast moving field It presents the very latest discoveries and ideas and covers the wealth of new and important observational data An increasing number of suspected planets outside our own Solar System are now being found and many objects have been independently confirmed Surprisingly the extrasolar planets discovered so far display orbital properties more diverse than those found in the Solar System The implication of these discoveries for theories of planet formation and the possibilities of life elsewhere makes this an exciting and important field In **Extrasolar Planets** Stuart Clark discusses the formation and evolution of stars and the processes leading to the formation of protoplanetary discs planetesimals embryonic planets and complete planetary systems He describes in detail the various techniques currently being employed for the detection of extrasolar planets and the results of searches to date The author reviews the evidence for all suspected extrasolar planets and discusses the theoretical problems posed by giant planets with small orbital radii and those in highly eccentric orbits Brown dwarfs and possible planets around pulsars are also explored The habitable zone is described in the context of extrasolar planets which might support life and the book discusses future planned searches for extrasolar planets including those designed to detect Earth sized worlds Readership Undergraduate and postgraduate students of astronomy astrophysics planetary sciences life sciences space science physics biophysics and theoretical physics and professional researchers in these fields Amateur astronomers and non specialists having an interest in planetary science in general and

extrasolar planets in particular      **Strategy for the Detection and Study of Other Planetary Systems and Extrasolar Planetary Materials** National Research Council, Division on Engineering and Physical Sciences, Space Studies Board, Committee on Planetary and Lunar Exploration, 1990-02-01 This volume addresses a new opportunity in the planetary sciences to extend our exploration outward to discover and study planetary systems that may have formed or are forming around other stars It concludes that a coordinated program of astronomical observation laboratory research theoretical development and understanding of the dynamics and origins of whatever may be found would be a technologically feasible and potentially richly rewarding extension of the study of bodies within the solar system      **A Photometric Study of Transiting Extrasolar Planets** Krasimirov Nikolay Nikolov, 2011      *Extra-Solar Planets* Bonnie Steves, Martin Hendry, Andrew C. Cameron, 2010-12-07 Since the discovery of the first exoplanet orbiting a main sequence star in 1995 nearly 500 planets have been detected with this number expected to increase dramatically as new ground based planetary searches begin to report their results Emerging techniques offer the tantalizing possibility of detecting an Earth mass planet in the habitable zone of a solar type star as well as the exciting prospect of studying exoplanetary atmospheres that could reveal the presence of biomarkers such as water vapor oxygen and carbon dioxide Can we find the Holy Grail of exoplanets Cutting edge research may reveal the answer Written by internationally renowned scientists at the forefront of the field Extra Solar Planets The Detection Formation Evolution and Dynamics of Planetary Systems presents powerful analytical tools and methods for investigating extra solar planetary systems It discusses new theories on planetary migration and resonant capture that elucidate the existence of hot Jupiters It also examines the astrophysical mechanisms required to assemble gas giant planets close to their parent star In addition the expert contributors describe how mathematical tools involving periodicity chaos and resonance are used to study the diversity and stability of observed planetary systems By presenting the fundamental analyses that underpin modern studies of extra solar planetary systems this graduate level book enables readers to thoroughly understand important recent developments and offers a platform for future research It also improves readers understanding of our own solar system and its place in the diverse range of planetary systems discovered so far      The New Worlds Fabienne Casoli, Therese Encrenaz, 2007-04-25 Offering an engaging and complete story of the hunt for new worlds this volume fully details the detection and exploration of extrasolar planets It examines the very wide range of extrasolar planets that have been discovered during the past ten years and looks at what can be learned about such planets by studying the bodies in our own solar system It also discusses the formation of planetary systems the way in which such systems may evolve and the final systems of planets that result In addition the authors demonstrate how life might evolve on an extrasolar planet and how such life might be detected      **The Search for Extrasolar Planets: Study of Line Bisectors from Stellar Spectra and Its Relation with Precise Radial Velocity Measurements** Aldo Fabricio Martínez Fiorenzano, 2006      *The Exoplanet Handbook* M. A. C. Perryman, 2014      **Study and Characterization of Exoplanets** Michael Nielsen, 2014-08-21

The study and characterization of extrasolar planets or exoplanets is an exciting field that brings together different disciplines from astronomy physics and chemistry Several open questions remain in respect to the stability of determining the exoplanet orbital period and temperature The latter study is further complicated by possible variations in the exoplanet surface or atmospheric reflection and emission [Kepler Mission Data for Students: Exoplanet Projects](#) MICHAEL.

LOPRESTO, 2025-11 **Worlds Unnumbered** Donald Goldsmith, 1997 Discusses the century long search for planets outside our solar system including the October 1995 announcement of the first discovered by astronomers and an explanation of where more planets might be found *Out of the Silent Planet* Andrew Clausen, 1993-08-01 [Searching for Habitable Worlds](#) W González-Espada, 2016-04-12

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