

**Activity A:**  
**Shape of orbits**

Get the Gizmo ready:

- Click **Reset**.
- Turn on **Show grid**.



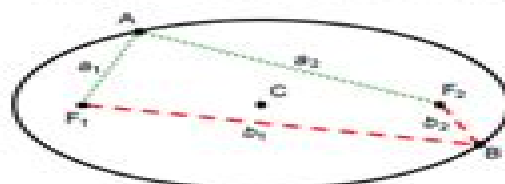
**Introduction:** The velocity of a planet is represented by an arrow called a **vector**. The vector is described by two components: the **i** component represents east-west speed and the **j** component represents north-south speed. The unit of speed is kilometers per second (km/s).

**Question:** How do we describe the shape of an orbit?

1. **Sketch:** The distance unit used here is the **astronomical unit** (AU), equal to the average Earth-Sun distance. Place the planet on the **i** axis at  $r = -3.00\mathbf{i}$  AU. Move the velocity vector so that  $\mathbf{v} = -8.0\mathbf{j}$  km/s ( $|\mathbf{v}| = 8.00$  km/s). The resulting vectors should look like the vectors in the image at right. (Vectors do not have to be exact.)



Click **Play**, and then click **Pause** () after one revolution. Sketch the resulting orbit on the grid.



2. **Identify:** The shape of the orbit is an **ellipse**, a type of flattened circle. An ellipse has a center (C) and two points called **foci** ( $F_1$  and  $F_2$ ). If you picked any point on the ellipse, the sum of the distances to the foci is constant. For example, in the ellipse at left:

$$a_1 + a_2 = b_1 + b_2$$

Turn on **Show foci and center**. The center is represented by a red dot, and the foci are shown by two blue dots. What do you notice about the position of the Sun?

*The Sun is located at one of the foci of the ellipse.*

3. **Experiment:** Try several other combinations of initial position and velocity.

- A. What do you notice about the orbits?

*Sample answer: The orbits all have an elliptical shape.*

- B. What do you notice about the position of the Sun?

*The Sun is always located at one focus of the ellipse.*

You have just demonstrated **Kepler's first law**, one of three laws discovered by the German astronomer Johannes Kepler (1571–1630). Kepler's first law states that planets travel around the Sun in elliptical orbits with the Sun at one focus of the ellipse.

**(Activity A continued on next page)**

# Orbital Gizmo Answers

**Stuart Lynn Sexton**

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

## Orbital Gizmo Answers:

Journal de la Société Royale D'astronomie Du Canada Royal Astronomical Society of Canada, 2009 Library catalogue in 1911 31 p appended to v 4    **Teleconnect** ,1983    **New Scientist** ,2008    *Popular Science* ,2000-10 Popular Science gives our readers the information and tools to improve their technology and their world The core belief that Popular Science and our readers share The future is going to be better and science and technology are the driving forces that will help make it better    **Hero** Abhishek Krishnan, 2017-12-18 Hero is the story of Abi your average Chennai boy with big dreams of becoming an actor A favorite among his friends Abi is a trustworthy loving college going boy to whom popularity and merit come naturally He effortlessly displays his talent and receives appreciation his first love blossoms beautifully But the second he finishes college he is shattered The small little bubble of college is burst and Abi struggles to accept the realities of life The love of his life vanishes and he is faced with deceit unemployment and complete dishonesty His dreams of becoming an actor no longer seem practical and he is forced to like everyone else succumb to a normal safe job But life as always is full of surprises and Abi finds his way back into love and also a way to pursue his dream Through this rollercoaster ride Hero takes us through the ups and downs of a man's life without getting too philosophical about it    **Eracor** William Collins, 2024-04-28 ERACOR is the ultimate story of mankind's fight for survival A desperate attempt to rebuild humanity's fallen world after having been defeated by a terrible alien confederation However in order to escape the horrors of the war Earth's once powerful defensive force known as Space Command had to grab everything they could carry and run for their lives The only question was where could they go After all every world they'd ever known had already been conquered or destroyed That's when they turned to a technological breakthrough and slipped into a new universe A reality far different from the one they'd just escaped This was to be the dawn of a new hope born out of the ruins of unimaginable destruction Unfortunately this wasn't the end of their struggle This was just a reshuffling of the deck    **XTERRA Conspiracy** , Scott Foresman-Addison Wesley Middle School Math ,2002    *Awakening* □ *Fun Sci-Fi Alien Contact Space Opera Cyberpunk* Donald Swan, 2014-09-11 An action packed fun and intelligent adventure into the unknown YourBookAuthors.com Enemy activity had fallen into an eerie calm but everyone felt the coming storm a terrible storm poised to unleash its fury upon the galaxy It seemed as though the entire universe was holding its breath Waiting Whether waiting for the salvation of mankind or its demise was yet unclear He set out to prove a theory Now he's racing to save the galaxy from his mistake Along with his newly found rag tag band of alien friends Nick Bannon battles to keep his devastating technology out of the hands of the biomechanoid race known as the Mok tu Nick is flung to a distant world when his hyperspace experiment goes awry Technology can always be used for good or evil and now his peaceful experiment could become a horrific weapon of a malicious alien race Every species in the galaxy is in danger of total annihilation and it may take one man's greatest sacrifice to stop it Full 86 000 word space opera novel Official Website TheHyperspaceProject.com Sci fi Space Opera Nanites

Hyperspace Aliens First Contact Action Adventure Fun Series scifi robot mechanoid prophecy queen battle stargate red shirts takei battle I found The Hyperspace Project to be an immensely enjoyable read I kept picturing Harrison Ford but with the Indiana Jones personality but in a Blade Runner world as Nick Bannon The pacing was great Swan did an awesome job giving just enough description of the new technology and alien races without dragging the story into a grinding halt The story had a feel good sense that I got from watching Guardians of the Galaxy where you get to know the characters to the point where you actually want to meet them and have a few drinks at a dive bar to hear more stories The dialogue and writing were top notch and it was clear that this story was thought out before Swan committed it to paper With all of the rehashes really can we do a Spiderman reboot just one more time please it is nice to meet some new characters in a new adventure and it doesn't have to end here since Swan already has book two on the shelves Highly recommend this book for lovers of sci fi Nathan Merceron 5 star sci fi adventure this book is FUN The start of a new series Book 1 Awakenings does not disappoint It has all the elements I desire in a good space adventure story a reluctant hero fumbling his way through new alien space interesting and unique aliens exciting twists and turns a good overall plot and a whole lot of fun I am right on board the Hyperspace wagon eagerly awaiting book 2 which means book 1 gets the OMGMOAR 5 star award from Tracing The Stars TracingTheStars.com A lost Queen An ancient prophecy Worlds caught in an interstellar war between two malevolent alien races Hyperspace Nanites Biomechanoids with a mysterious past The Hyperspace Project is non stop action and lots of fun John S I really enjoyed this book There is a lot of action but it's well balanced If you like Star Trek or shows like Stargate then I think you'll like this book Fun characters and a story that flows well Some good futuristic science too Nanites hyperspace gadgets etc I only wish that the second book was already available There is also an interesting extra chapter that can be unlocked with clues from the book That added an extra bit of fun to it as well Sara BestIndieBooks.com <http://thehyperspaceproject.com> Excerpt Karg woke to the sound of explosions rocking the ship Karg Get to Bay One we're about to have company Arya's voice demanded over his com badge Karg fell out of bed onto his knees The rumble of multiple blasts to the hull rang through his room What what's going on Arya Karg Get your arse to Bay One Now The sounds of explosions on the bridge almost drowned out Arya's voice Raiders Frek Karg grumbled He flew out of the door into the corridor driving a passing Meth into the wall as they collided The Meth crewmember stumbled to his feet in his cumbersome environmental suit and continued on his way Karg was too distracted to apologize He hopped down the hallway attempting to get a foot into his boot and still shaking off his grogginess He finally got his feet stuffed into his boots before rounding the corner into Bay One The fury of plasma blasts hitting the hull reverberated through the hangar like a giant drum I'm in Bay One What the heck is going on out there Karg waited for what seemed like forever for an answer The silence on the com had him worried Finally Arya replied Raiders Everywhere Too small and fast Can't get a clear shot Can't outrun them Suddenly Karg's com badge screeched and whined Then a strange voice broke in Captain of the Ashok surrender and I may let your crew live Karg waited

tensely through the long pause Arya didn't appear to be responding to the raider's demands. Let me talk to Arnon, the voice demanded. On the bridge Arya sat tall and straight in the Captain's chair, glaring at the main view screen. An unkempt, scarred face stared back at her. Typical raider scum in need of a good bath and some manners. At least over the vid link she was spared from his stench. All her training and time spent watching Argos command the ship had prepared her for this moment. Raider baskurt. This is Captain Arya of the Ashok. I have been lenient with you so far, but do not try my patience. Perhaps you have heard about how we recently destroyed a Mok-tu Star Killer. Leave now or suffer the same fate. The commander of the raiders smirked. Yeah, I've heard of you, alright. And I've heard about that weapon of yours. A weapon of that power would be worth a lot of credits. Way I hear it, that weapon could probably rip apart a whole planet. The fact that a craft that small can unleash that kind of power has me shakin' in my boots. The commander gave a sarcastic laugh. The thing is, that weapon may be scary powerful when it's launched, but right now it's sitting safely aboard your ship. Now surrender before I take your ship apart piece by piece. Arya's mind raced. They knew about the hyperspace ship, but they thought it was still aboard the Ashok. How could she use that to her advantage? And Arnon? How did they know? Arnon, I've called your bluff, missy. The commander chided. Time to pay up, Commander Scumbag. She began taunting him with insults. I do not negotiate with raiders, and especially not with the likes of you. You have ballusks. I'll give you that. I can't believe you would threaten the ship carrying the biggest, baddest weapon around. What the heck were you thinking? You're such a patuke. I have nothing more to say to you. You're not even worth the effort of killing. Get out of my way, and I will let you live. And before you go making another brilliant decision in your colorful yet undoubtedly short career, I ask you: how sure are you that this weapon can't be fired from within the walls of this vessel? Are you willing to bet your life on it? The commander's reply was long in coming. The smaller raider vessels zipped around the Ashok like beetles on a syrup tree, continuing to fly hit and run maneuvers. The constant plasma blasts were beginning to weaken the Ashok's defenses. Finally, the commander's voice broke the silence. I understand. You have principles. You don't negotiate with raiders. That's one of your principles. But you see, I don't have any of them principles. Life's much simpler that way. Know what I'm saying? The commander grinned, one gold tooth shining amidst his decaying, food-encrusted teeth. It's a shame that a pretty thing like you is going to have to die, but now you're trying my patience. Sirok sent a message to Arya's console with his wireless neural interface. The raiders had made it through the Ashok's collapsing shields and had blown off the outer door to Bay One. With the shields failing and the hull breached, there was nothing to stop them from entering the ship. Arya severed communications with the raiders, and the view screen went blank. The time for posturing was over. The raiders in this sector were notoriously dangerous, and most likely one of the main reasons so few ever returned from Demented Space. Sirok, you have the con. Patch everything through to my PDU. Arya held up her personal data unit, a handy do-about anything reconfigurable on-the-fly mobile gadget that she seldom left behind. Tell Karg, I'm headed down there and get everyone you can to Bay One. We need to stop them from getting into the rest of the ship. Aye, Captain Sirok.

busily typed on his console His holo display showed a diagram of the ship alongside a roster of the crew and their current locations Arya turned as she entered the transport tube Lock down the bridge The tube doors slid shut with a whoosh and the tube sped down to the bay level Sirok broadcasted a message to all hands ordering them to defend the hangar bay The bridge grew quiet The bombardment had ceased The raiders were now focused on taking the ship Sirok put a priority one lockdown in place sealing off the bridge Arya would be able to command the ship through her encrypted mobile data unit but if all else failed Sirok would have to take over command from the bridge The protective mucus covering Sirok's body oozed faster It was a natural bodily function for a Kymirian under stress a vestige of his ancestry that allowed them to move quickly and replace the antibacterial covering at a more rapid rate His nerves were beginning to get the best of him and he could feel it in the thinning mucus running down his face He knew that even with the bridge locked out the raiders could disable the engines and other systems if they infiltrated the ship Arya slid to a stop next to Karg in Bay One The force field in the bay was holding but through the translucent wall of static the ominous presence of the raiders was apparent A boarding party was nearing the field spreading into several groups A handful of crewmembers ran into the bay behind Arya Two Meths a couple of Arisian ensigns and Kyrk Arya frowned That's it That's all of you Hull breach in the aft section Kyrk responded Five of the crew were there when it happened Three didn't make it The other two are trapped Arya was all business Sket It will have to do Take cover We draw the line here Do you understand Yes Sir the crew replied in true military fashion In front of them the glove of an armored space suit pierced through the force field Karg They're coming through They must be using a field modulator Another hand came through the force field a pistol aimed and at the ready Plasma blasts ricocheted off the metal crate in front of them as they ducked Open fire Arya commanded as she popped up and fired several rounds at the raiders A barrage of plasma bolts streaked back and forth across the bay Puffs of smoke rose from the impacting balls of plasma creating an early morning fog like haze throughout the bay First Contact Space Fleet Hard Science Fiction Alien Invasion Technothrillers Genetic Engineering Paranormal Urban Metaphysical Visionary Cyberpunk Adventure Alien Artificial Intelligence Aliens Mutants Psychics Robots Mystery Romance Metaphysical Thor Superhero Sword Invasion Contact Empire Genes Fleet Extraterrestrial Action

**The Copernicus Complex** Caleb Scharf, 2014-09-04 Though the concept of the universe suggests the containment of everything the latest ideas in cosmology hint that our universe may be just one of a multitude of others a single slice of an infinity of parallel realities In *The Copernicus Complex* the renowned astrophysicist and author Caleb Scharf takes us on a cosmic adventure like no other from tiny microbes within the Earth to distant exoplanets and beyond asserting that the age old Copernican principle is in need of updating As Scharf argues when Copernicus proposed that the Earth was not the fixed point at the center of the known universe and therefore we are not unique he set in motion a colossal scientific juggernaut forever changing our vision of nature But the principle has never been entirely true we do live at a particular time in a particular location under particular circumstances To solve this

conundrum we must put aside our Copernican worldview and embrace the possibility that we are in a delicate balance between mediocrity and significance order and chaos Weaving together cutting edge science and classic storytelling historical accounts and speculations on what the future holds The Copernicus Complex presents a compelling argument for what our true cosmic status is and proposes a way forward for the ultimate quest to determine life s abundance not just across this universe but across all realities      *Sideslip* Ted White,Dave van Arnam,2012-12-21 One minute I was in New York walking down Sixth Avenue a private eye on a two bit job Next minute I was in New York a crazy town I almost recognised but Goebbels was speaking in Union square Hitler invited me to a cocktail party and aliens from outer space were running the whole show Fun City it wasn t Plucked from his own time a pawn in a Galactic power play Ron Archer fights his way through a deadly maze of intrigue and conspiracy to an incredible destiny at the end of the star lanes      *Brain Games For Dummies* Timothy E. Parker,2008-12-29 300 challenging puzzles to improve problem solving skills and stimulate the brain Studies have shown that puzzles like Sudoku crosswords cryptograms and other mental aerobics can help reduce memory loss due to normal aging and minimize the risk of developing neurodegenerative diseases Brain Games For Dummies features 300 fun mental exercises that will keep readers neurons firing 100 crossword puzzles 75 Sudoku puzzles 50 word searches 25 word scrambles 25 cryptograms 15 riddles and 10 logic puzzles along with complete solutions Ranked by level of difficulty easy tricky tough and treacherous these puzzles are a surefire way to boost mental fitness The book s portable trim size makes it perfect for playing on the go or during the commute home      **Frontier Zone; The Role-playing Game of the Future 2nd Edition** Stuart Lynn Sexton,2013-06-04 Now at last the Frontier Zone RPG 2nd Edition is here Finally the rules have been upgraded and the images have been improved upon for a much more enjoyable game If you have the 1st Edition fear not the basic game mechanics are much the same But the enhancements make for a richer fuller game experience For those new to the Frontier Zone Universe this game is a fun and enjoyable introduction to the 22nd Century setting of the Frontier Zone So come on in and enjoy the adventure Welcome to the Frontier Zone      Inventors and Inventions Lorraine Hopping Egan,1997 Presents reproducible cross curricular activities for grades four through eight on historic and modern inventions and inventors and includes ideas for student inventions      **The Crossword Answer Book** ,1996 The most comprehensive crossword reference the only one based on actual crosswords It s guaranteed to have more of the answers you re looking for      AutoCAD® 2010 3D Modeling Essentials Munir Hamad,2010-06-23 AutoCAD is a premier PC based drafting tool that has been used by millions of engineers draftsmen project managers and engineering students since its inception in 1982 AutoCAD 2010 3D Modeling Essentials provides new and seasoned users with simple step by step procedures on how to create and modify 3D models set up cameras and lights assign materials to objects render and print Use the DVD to set up drawing exercises view all of the book s figures in full color and draw with a trial version of AutoCAD 2010 Forty five exercises throughout the book simulate the creation of a full real world project from concept to completion

without overlooking any of the fundamental commands and functions of AutoCAD 2010 *Frontier Zone. the Role Playing Game of the Future. (Classic Edition.)* Stuart Sexton,2008-03-01 In the 22nd Century a new frontier begs to be explored But life in the United Systems Alliance Frontier Zone is dangerous The United Systems Navy patrols the Zone as best as is possible but the Seven Fleets are spread way too thinly What s more there are the Mordum Hegemony and the Shardon Empire to worry about Danger and excitement go hand in hand in The Frontier Zone This is the classic edition with all of the original artwork Beginning 3D Game Development with Unity 4 Sue Blackman,2013-09-20 Beginning 3D Game Development with Unity 4 is perfect for those who would like to come to grips with programming Unity You may be an artist who has learned 3D tools such as 3ds Max Maya or Cinema 4D or you may come from 2D tools such as Photoshop and Illustrator On the other hand you may just want to familiarize yourself with programming games and the latest ideas in game production This book introduces key game production concepts in an artist friendly way and rapidly teaches the basic scripting skills you ll need with Unity It goes on to show how you as an independent game artist can create interactive games ideal in scope for today s casual and mobile markets while also giving you a firm foundation in game logic and design The first part of the book explains the logic involved in game interaction and soon has you creating game assets through simple examples that you can build upon and gradually expand In the second part you ll build the foundations of a point and click style first person adventure game including reusable state management scripts dialogue trees for character interaction load save functionality a robust inventory system and a bonus feature a dynamically configured maze and mini map With the help of the provided 2D and 3D content you ll learn to evaluate and deal with challenges in bite sized pieces as the project progresses gaining valuable problem solving skills in interactive design By the end of the book you will be able to actively use the Unity 3D game engine having learned the necessary workflows to utilize your own assets You will also have an assortment of reusable scripts and art assets with which to build future games **Army** ,1967 Discovering AutoCAD 2020 Mark Dix,Paul Riley,2019-08-14 Designed for introductory AutoCAD users Discovering AutoCAD 2020 presents a hands on activity based approach to the use of AutoCAD 2020 as a drafting tool complete with techniques tips shortcuts and insights that improve efficiency Topics and tasks are carefully grouped to lead students logically through the AutoCAD command set with the level of difficulty increasing steadily as skills are acquired through experience and practice Straightforward explanations focus on what is relevant to actual drawing procedures and illustrations show exactly what to expect on the computer screen This edition features updates for the latest release of AutoCAD 2020 projects and test questions for each chapter Lessons are broken down into tasks listed at the beginning of each section introducing students to the AutoCAD commands using a structured intuitive approach and helping students anticipate what information will be needed at each new phase of the learning process General Procedure boxes appear as new commands are introduced providing a simple overview of basic command sequences in a step by step format Detailed graphics appear throughout the



text demonstrating what students should expect to see on their screens and encouraging self paced study Drawing problems appear at the end of each chapter helping students apply newly learned techniques immediately to realistic drawing situations This includes drawing suggestions timesaving tips and explanations of how to use techniques in actual situations Working drawings accompany the end of chapter drawing problems appearing in a large clearly dimensioned format on each right hand page with drawing suggestions on the accompanying left hand page This includes mechanical architectural civil and electrical drawings End of chapter review questions to test the student s knowledge Discovering AutoCAD 2020 will be a valuable resource for any student wanting to learn drafting skills

## **Orbital Gizmo Answers Book Review: Unveiling the Power of Words**

In a global driven by information and connectivity, the power of words has are more evident than ever. They have the capacity to inspire, provoke, and ignite change. Such could be the essence of the book **Orbital Gizmo Answers**, a literary masterpiece that delves deep into the significance of words and their affect our lives. Written by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we will explore the book is key themes, examine its writing style, and analyze its overall affect readers.

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