

Gravity and the Inverse Square Law

Gravity is a great real life application of the [inverse \(indirect\) square law](#), or, "y is inversely proportional to the square of x". The gravity field of a body (comet, planet, star etc) is inversely proportional to the distance from the centre of the body squared. As an equation this is:

$$g \propto \frac{1}{r^2} \quad \Rightarrow \quad g = \frac{k}{r^2}$$

Where:

g = gravity field of a body (acceleration due to gravity in ms^{-2})

r = distance from centre of the body (in m)

Task 1

For each of the bodies listed below, use the figures for surface gravity and radius to find equations for their gravity fields. (Expect large k values!):

Planet	Mercury	Venus	Earth	Mars	Jupiter	Saturn	Uranus	Neptune	Pluto*
Surface Gravity (ms^{-2})	3.7	8.87	9.81	3.69	24.79	3.69	8.69	11.15	0.81
Radius (1000m)	2,439	6,051	6,378	3,396	71,492	60,268	25,550	24,764	1,151

*Pluto is no longer called a planet but rather a '[dwarf planet](#)'. Nevertheless it is still a body with a gravity field that obeys the inverse square law.

You could also try this for the Moon (surface gravity= 1.622ms^{-2} , radius= $1,738,140\text{m}$) or the Sun (surface gravity= 274ms^{-2} , radius= $6.955 \times 10^8\text{m}$).

Task 2 - The constant k.

In each of your equations the constant k actually represents the mass (m) of each planet multiplied by the [gravitational constant](#) (G), as discovered by [Sir Isaac Newton](#). As an equation this is:

$$k = Gm \quad \text{and hence} \quad g = \frac{Gm}{r^2}$$

The gravitational constant is a very small number measured in Newtons or kgms^{-2} :

$$G = 6.674 \times 10^{-11}$$

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VM Jensen



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Table of Contents Gravity Inverse Square Law Problems Answer Key

1. Understanding the eBook Gravity Inverse Square Law Problems Answer Key
 - The Rise of Digital Reading Gravity Inverse Square Law Problems Answer Key
 - Advantages of eBooks Over Traditional Books
2. Identifying Gravity Inverse Square Law Problems Answer Key
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Gravity Inverse Square Law Problems Answer Key
 - User-Friendly Interface
4. Exploring eBook Recommendations from Gravity Inverse Square Law Problems Answer Key

- Personalized Recommendations
 - Gravity Inverse Square Law Problems Answer Key User Reviews and Ratings
 - Gravity Inverse Square Law Problems Answer Key and Bestseller Lists
5. Accessing Gravity Inverse Square Law Problems Answer Key Free and Paid eBooks
 - Gravity Inverse Square Law Problems Answer Key Public Domain eBooks
 - Gravity Inverse Square Law Problems Answer Key eBook Subscription Services
 - Gravity Inverse Square Law Problems Answer Key Budget-Friendly Options
 6. Navigating Gravity Inverse Square Law Problems Answer Key eBook Formats
 - ePub, PDF, MOBI, and More
 - Gravity Inverse Square Law Problems Answer Key Compatibility with Devices
 - Gravity Inverse Square Law Problems Answer Key Enhanced eBook Features
 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Gravity Inverse Square Law Problems Answer Key
 - Highlighting and Note-Taking Gravity Inverse Square Law Problems Answer Key
 - Interactive Elements Gravity Inverse Square Law Problems Answer Key
 8. Staying Engaged with Gravity Inverse Square Law Problems Answer Key
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Gravity Inverse Square Law Problems Answer Key
 9. Balancing eBooks and Physical Books Gravity Inverse Square Law Problems Answer Key
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Gravity Inverse Square Law Problems Answer Key
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Gravity Inverse Square Law Problems Answer Key
 - Setting Reading Goals Gravity Inverse Square Law Problems Answer Key
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Gravity Inverse Square Law Problems Answer Key

- Fact-Checking eBook Content of Gravity Inverse Square Law Problems Answer Key
- Distinguishing Credible Sources

13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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