

Chapter 7 Gravitation Additional Problems

Lesson 4 Theories of Gravity

Lesson Practice

1. The mass of the Moon is 7.3×10^{22} kg and its radius is 1738 km. What is the strength of the gravitational field on the surface of the Moon?
2. If Earth began to shrink, but its mass remained the same, what would happen to the value of g on Earth's surface?
3. Picking up a rock requires less effort on the Moon than on Earth. How will the Moon's gravitational force affect the path of the rock if it is thrown horizontally?
4. The Moon is 3.9×10^8 km from Earth's center and Earth is 14.96×10^7 km from the Sun's center. The masses of Earth and the Sun are 5.97×10^{24} kg and 1.99×10^{30} kg, respectively. During a full moon, the Sun, Earth, and the Moon are in line with each other, as shown in the figure below.



- a. Find the ratio of the gravitational fields due to Earth and the Sun at the center of the Moon.
 - b. What is the net gravitational field due to the Sun and Earth at the center of the Moon?
5. What would be the strength of Earth's gravitational field at a point where an 80.0-kg astronaut would experience a 25.0 percent reduction in weight?
 6. Why is Einstein's description of gravity called a theory, while Newton's is called a law?
 7. The position of a star appears to change when light from the Sun passes near a star, as shown in the figure below. How does Einstein's theory of gravity explain this effect?



Chapter 7 Gravitation Practice Problems Answers Netti

Michael Rajnik



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