



PRACTICE IT 2A.1 | Forces | Force of Gravity Problems

Part 1: Newton's Law of Universal Gravitation Problems

1. What is the magnitude of the gravitational force between two 5.0 kg masses separated by a distance of 5.0 m? ($6.67 \times 10^{-11} \text{ N}$)

Variables	Work
$G = 6.67 \times 10^{-11} \text{ N m}^2 / \text{kg}^2$ $m_1 = 5 \text{ kg}$ $m_2 = 5 \text{ kg}$ $d = 5 \text{ m}$ $F_g =$	$F_{\text{grav}} = G \frac{m_1 m_2}{r^2} = 6.67 \times 10^{-11} \times \frac{5 \text{ kg}}{5^2} = 6.67 \times 10^{-11} \text{ N}$

2. A force of 500 N separates two objects. The distance between their centers is 67 m. The first object has a mass of 20.0 kg. What is the mass of the second object? ($1.7 \times 10^{11} \text{ kg}$)

Variables	Work
$G = 6.67 \times 10^{-11} \text{ N m}^2 / \text{kg}^2$ $m_1 = 20 \text{ kg}$ $m_2 =$ $d = 67 \text{ m}$ $F_g = 500 \text{ N}$	$F_{\text{grav}} = G \frac{m_1 m_2}{r^2}$ $\Rightarrow m_2 = \frac{F_g r^2}{G m_1} = \frac{500 \text{ N} \cdot 67^2 \text{ m}^2}{6.67 \times 10^{-11} \text{ N m}^2 / \text{kg}^2} = 1.7 \times 10^{11} \text{ kg}$

3. The mass of the moon is about $7.35 \times 10^{22} \text{ kg}$. The mass of the earth is about $5.98 \times 10^{24} \text{ kg}$. If the centers of the two are $3.84 \times 10^8 \text{ m}$ apart, what is the gravitational force between them? ($1.99 \times 10^{20} \text{ N}$)

Variables	Work
$G = 6.67 \times 10^{-11} \text{ N m}^2 / \text{kg}^2$ $m_1 = 7.35 \times 10^{22} \text{ kg}$ $m_2 = 5.98 \times 10^{24} \text{ kg}$ $d = 3.84 \times 10^8 \text{ m}$ $F_g =$	$F_g = G \frac{m_1 m_2}{r^2} = 6.67 \times 10^{-11} \times \frac{7.35 \times 10^{22} \text{ kg} \cdot 5.98 \times 10^{24} \text{ kg}}{(3.84 \times 10^8 \text{ m})^2} = 1.99 \times 10^{20} \text{ N}$

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Kathleen Armour



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