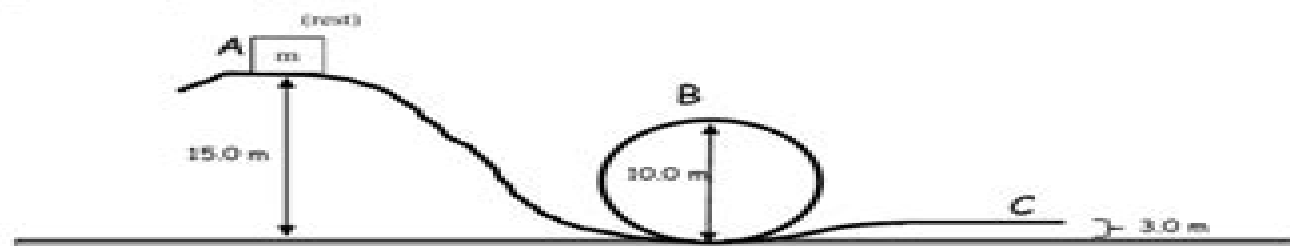


PHYSICS WORKSHEET: WORK & ENERGY

1. A 1.20×10^3 kg block starting from rest is accelerated by a 2.20×10^3 N force for a distance of 50.0 meters along a horizontal frictionless surface. (a) What is the final velocity of the mass? (b) How much work was done on the mass?
2. A stock boy is told to put boxes of mass 5.0 kg on shelves that are 1.5 meters above the floor. The young man finds that he can do this at a rate of 4.0 per minute. (a) How much work will he do in 15 minutes? (b) What is his power for this job?
3. A horse pulls a carriage filled with people around a circular park road of radius 0.50 km. The horse exerts an average force of 8.0×10^2 N. How much work does the horse do in a round trip? (b) If it takes 12 minutes to circle the park, what is the horse's power output?
4. A girl starts from home and pulls her wagon around the block (a distance of 700.0 meters). The wagon weighs 90.0 N and the handle makes an angle of 40.0° with the road. If he pulls with an average force of 75.0 N, how much work does he do?
5. A spring has a spring constant of 248 N/m. Find the force required to (a) stretch the spring by 3.00 cm, and (b) compress the spring by the same amount.
6. A 170 N force is necessary to compress a spring a distance of 40.0 cm. (a) What is the spring constant? (b) What is the elastic potential energy stored in the spring? (c) What energy would be stored in the spring if it were compressed 80.0 cm?
7. A spring has spring constant $k = 380$ N/m. How much must this spring be compressed to store 60.0 Joules of energy?
8. A physics book weighing 20.0 N is dropped from a position 2.00 meters above the floor. (a) What is the potential energy of the book before it is dropped? (b) What is the kinetic energy of the book when it is 1.00 meter from the floor? (c) What is the speed of the book the instant before it reaches the floor?
9. A ball of mass 0.50 kg is rolling across a table top with a speed of 5.0 m/s. When the ball reaches the edge of the table, it rolls down an incline onto the floor 1.0 meter below (w/o bouncing). What is the speed of the ball when it reaches the floor?
10. A hot-wheels car of mass 0.025 kg is traveling on a horizontal track with a velocity of 5.0 m/s. If the track suddenly turns upward, how high up the track will the car travel?
11. Figure 1 shows a 1.00 kg object ready to start sliding downward on a frictionless track. Compute the velocity of the object at points B, and C.



Work Physics Problems With Solutions And Answers

J Rink



Work Physics Problems With Solutions And Answers:

Work Physics Problems With Solutions And Answers: Bestsellers in 2023 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous engrossing novels enthralling the hearts of readers worldwide. Lets delve into the realm of bestselling books, exploring the captivating narratives that have charmed audiences this year. The Must-Read : Colleen Hoover "It Ends with Us" This poignant tale of love, loss, and resilience has gripped readers with its raw and emotional exploration of domestic abuse. Hoover masterfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can triumph. Work Physics Problems With Solutions And Answers : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This captivating historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids captivating storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens "Where the Crawdads Sing" This captivating coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens spins a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These bestselling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of engaging stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a masterful and suspenseful novel that will keep you wondering until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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