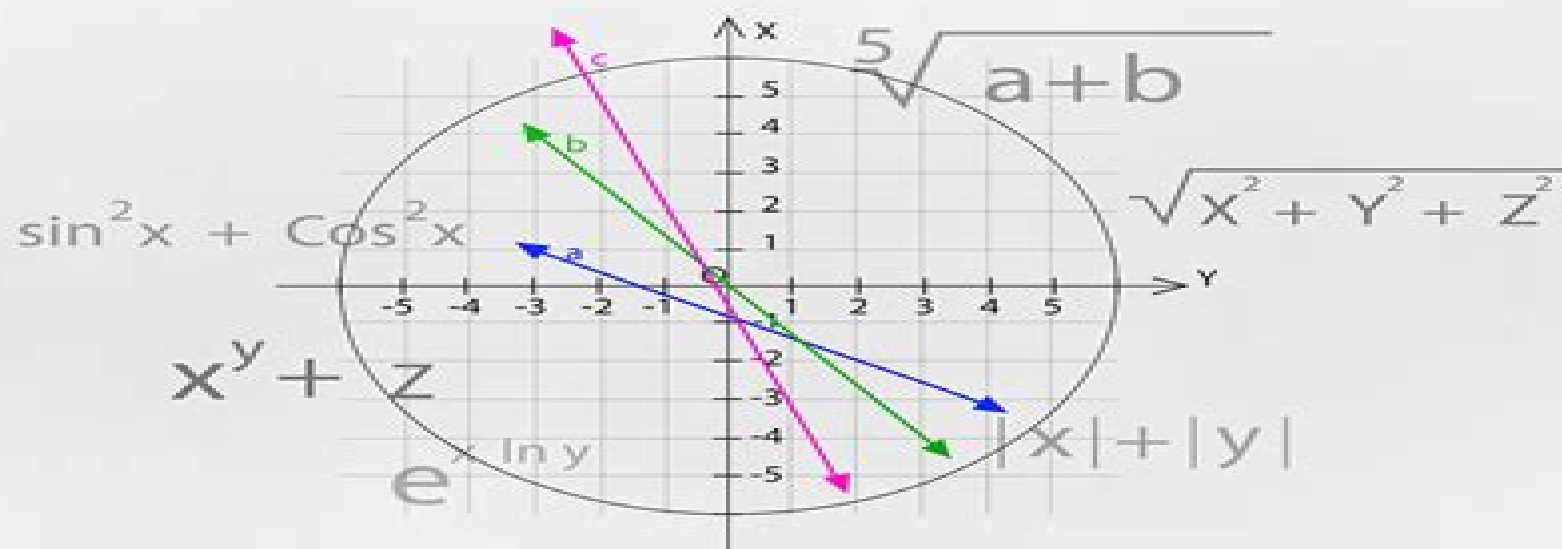


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Fractional Calculus and its Applications in Physics Dumitru Baleanu, Devendra Kumar, 2019-11-15 [Fractional Calculus: An Introduction For Physicists \(2nd Edition\)](#) Richard Herrmann, 2014-01-03 The book presents a concise introduction to the basic methods and strategies in fractional calculus and enables the reader to catch up with the state of the art in this field as well as to participate and contribute in the development of this exciting research area. The contents are devoted to the application of fractional calculus to physical problems. The fractional concept is applied to subjects in classical

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think exactly for advancement in science technology by growing application of fractional calculus and this century has started speaking the language which nature understands the best

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your understanding of kinetic energy to answer the following questions then click the button to view the answers 1 determine the kinetic energy of a 625 kg roller coaster car that is moving with a speed of 18.3 m/s

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web mathematically it is computed using the following equation power work time or $P = W/t$ the standard metric unit of power is the watt as is implied by the equation for power a unit of power is equivalent to a unit of work divided by a unit of time thus a watt is equivalent to a joule second

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web 1 which of the following statements are true about work include all that apply work is a form of energy a watt is the standard metric unit of work units of work would be equivalent to a newton times a meter a $\text{kg} \cdot \text{m}^2/\text{s}^2$ would be a unit of work work is a time based quantity it is dependent upon how fast a force displaces an object

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web power an object can store energy as the result of its position for example the heavy ball of a demolition machine is storing energy when it is held at an elevated position this stored energy of position is referred to as potential energy similarly a drawn bow is able to store energy as the result of its position

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web answer a for any given situation the work done by a force can be calculated using the equation $W = Fd \cos \theta$ where F is the force doing the work d is the displacement of the object and θ is the angle between the force and the displacement

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web show answer problem 3 lamar gant u s powerlifting star became the first man to deadlift five times his own body weight in 1985 deadlifting involves raising a loaded barbell from the floor to a position above the head with outstretched arms determine the work done by lamar in deadlifting 300 kg to a height of 0.90 m above the ground

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web energy bar charts or even work energy bar charts are conceptual tools that help to illustrate how the energy changes both the form and the amount as the object moves from the initial state to the final state

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web check your understanding use your understanding of the work energy theorem to answer the following questions then click the button to view the answers 1 consider the falling and rolling motion of the ball in the following two resistance free situations