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a the act or process of moving faster or happening more quickly the act or process of accelerating rapid acceleration the acceleration of economic growth b ability to accelerate you must have heard of the term acceleration in your daily life if we look at it in general acceleration is said to be when an object is increasing its speed cautiously in other words it means if you are traveling in a car which is moving at the speed of 60 kmph and after 1 min the speed of the car is 65 kmph which means you are accelerating now the question arises that acceleration rate at which velocity changes with time in terms of both speed and direction a point or an object moving in a straight line is accelerated if it speeds up or slows down motion on a circle is accelerated even if the speed is constant because the direction is continually changing in mechanics acceleration is the rate of change of the velocity of an object with respect to time accelerations are vector quantities in that they have magnitude and direction the orientation of an object's acceleration is given by the orientation of the net force acting on that object acceleration is a vector quantity that is defined as the rate at which an object changes its velocity an object is accelerating if it is changing its velocity sports announcers will occasionally say that a person is accelerating if he she is moving fast yet acceleration has nothing to an object is said to be accelerated if there is a change in its velocity the change in the velocity of an object could be an increase or decrease in speed or a change in the direction of motion a few examples of acceleration are the falling of an apple the moon orbiting around the earth or when a car is stopped at the traffic lights jan 16 2021 acceleration is the rate of change of velocity meaning something is getting faster or slower what is the acceleration formula you can use the acceleration equation to calculate acceleration here is the most common acceleration formula $a = \frac{\Delta v}{\Delta t}$ where Δv is the change in velocity and Δt is the change in time acceleration is the name we give to any process where the velocity changes since velocity is a

speed and a direction there are only two ways for you to accelerate change your speed or change your direction or change both nov 9 2022 acceleration is defined as the time rate change of velocity however velocity is the time rate of change of displacement acceleration can be positive or negative not zero while velocity can be zero positive or negative the si unit of acceleration is m s^{-2} the si unit of velocity is m s^{-1} the formula for acceleration is $\text{acceleration} = \frac{\text{velocity}}{\text{time}}$ acceleration is the change in speed or velocity of an object over a certain time it can be calculated by dividing the change in velocity by the total time

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