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learn how to find an object's instantaneous speed or velocity in three ways by using calculus by looking at the slope of a given point on a graph of an object's rate vs time or by using kinematic formulas if the object's acceleration is constant created by david santopietro questions tips thanks want to join the conversation sort by speed is the time rate at which an object is moving along a path while velocity is the rate and direction of an object's movement put another way speed is a scalar value while velocity is a vector in this section we will look at time speed and velocity to expand our understanding of motion a description of how fast or slow an object moves is its speed speed is the rate at which an object changes its location like distance speed is a scalar because it has a magnitude but not a direction forces and motion balanced and unbalanced forces contact forces fluid mechanics reference frames and relative position projectile motion and freefall speed velocity acceleration describing motion momentum and collisions circular motion torque newton 39 s laws of motion periodic motion electric force relationship actually both the formula 39 s still produce the same answer since the initial velocity is 0 when the initial velocity is 0 then the displacement final velocity initial velocity 0 final velocity 2 km/h total time 2 h avg velocity  $v = \frac{v_f + v_i}{2}$  avg velocity 0 2 2 fundamentals acceleration angular momentum couple d 39 alembert 39 s principle energy kinetic potential force frame of reference inertial frame of reference impulse inertia moment of inertia mass mechanical power mechanical work moment momentum space speed the magnitude of the velocity i.e. the speed is the time rate at which the point is moving along its path if a point moves a certain distance along its path in a given time interval its average speed during the interval is equal to the distance moved divided by the time taken speed is a scalar quantity that refers to how fast an object is moving speed can be thought of as the rate at which an object covers distance a fast moving object has a high speed and covers a relatively large distance in a short amount of time b describe and analyze motion in one dimension using equations with the concepts of distance displacement speed average velocity instantaneous velocity and acceleration f identify and describe motion relative to different frames of reference one dimensional motion acceleration what are velocity vs time graphs how to analyze graphs that relate velocity and time to acceleration and displacement what does the vertical axis represent on a velocity graph the vertical axis represents the velocity of the object speed is a scalar quantity and velocity is a vector quantity velocity being a vector has both a magnitude and a direction the magnitude of the velocity vector is the instantaneous speed of the object the direction of the velocity vector is directed in the same direction that the object moves since an object is moving in a circle its this is your average speed velocity is a lot like speed except for one important difference it is a vector meaning it has a direction so while your speed may have been 72 mph your velocity intro motion speed velocity acceleration adventures in istem 2 67k subscribers subscribe 52 8 4k views 2 years ago physical science videos learn the difference between speed velocity and instantaneous velocity is the first derivative of displacement with respect to time speed and velocity are related in much the same way that distance and displacement are related speed is a scalar and velocity is a vector speed gets the symbol  $v$  italic and velocity gets the symbol  $\mathbf{v}$  boldface average values get a bar over the symbol speed and velocity refer to the motion of an object distance time and velocity time graphs can be a useful way of analysing motion part of combined science forces calculate velocity b and speed b given initial position initial time final position and final time derive a graph of velocity b vs time given a graph of position vs time interpret a graph of velocity b vs time there is more to motion b than distance and displacement in everyday language most people use the terms speed and velocity interchangeably in physics however they do not have the same meaning and they are distinct concepts one major difference is that speed has no direction thus speed is a scalar the average velocity is 40 miles per hour choice b the total displacement of the trip is 300 miles b the total displacement of the trip is 300 miles choice c the average speed is 37.5 miles per hour c the average speed is 37.5 miles per hour the speed of the wind and the speed of sound also vary a typical value for the speed of sound in air is about 330 m/s the velocity of an object is its speed in a particular direction

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