Constant Velocity Motion Tuesday, September 22, 2009 10:06 AM mean Position is your location at any more direction Displacement is separation from a starting place after moving WITH A DIRECTION, measured in meters (m) Vector 2005+100 = final - initial Variable in equations is d -2-2===4m Distance is similar but different, distance is total number of meters travelled from a starting point, measured in meters (m) Scalar ~ no direction < ± aren't was Variable in equations is d Velocity is the rate of change of displacement - by time it tales vector t_{6} Speed is rate of change of distance V = 40Slope og Example: A cat travels from the 1.0 meter mark as shown below to the 5.0 m mark then to the 3.0 m mark find the position, distance travelled and the displacement of the cat at the ord. fire position 3.0 m 6:3600 distance 6.0 displacement #200 wight Time is a measurement of change in the universe. Most physical des change as time passes. Time is a dimension in space like left/right, up/down, in/cut. Time is measured in seconds (s). Variable in equations is time Determine how many seconds there are in a 1.25 hour long physics class. Unit conversion -> by multiplying Velocity is a speed WITH A DIRECTION, measured in maters per second (m/s) 45005 Variable in equations is v verderity is the rate of change of displacement 4500 mgc upon a time there was Slope at is Rate at contained Rip, and Zip was *displacement* time = velocity (m) acceleration On a. d avaphalone = No loch



Variable in equations v



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A linear graph of d vs. t will show a constant velocity



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