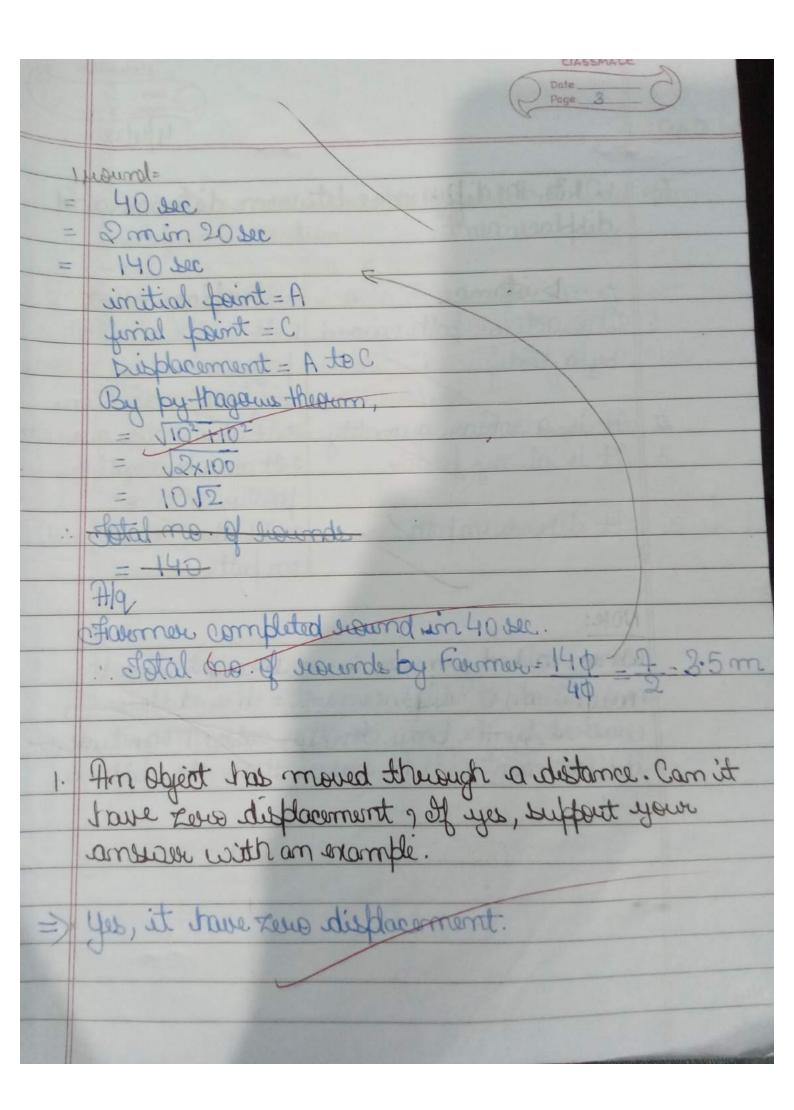
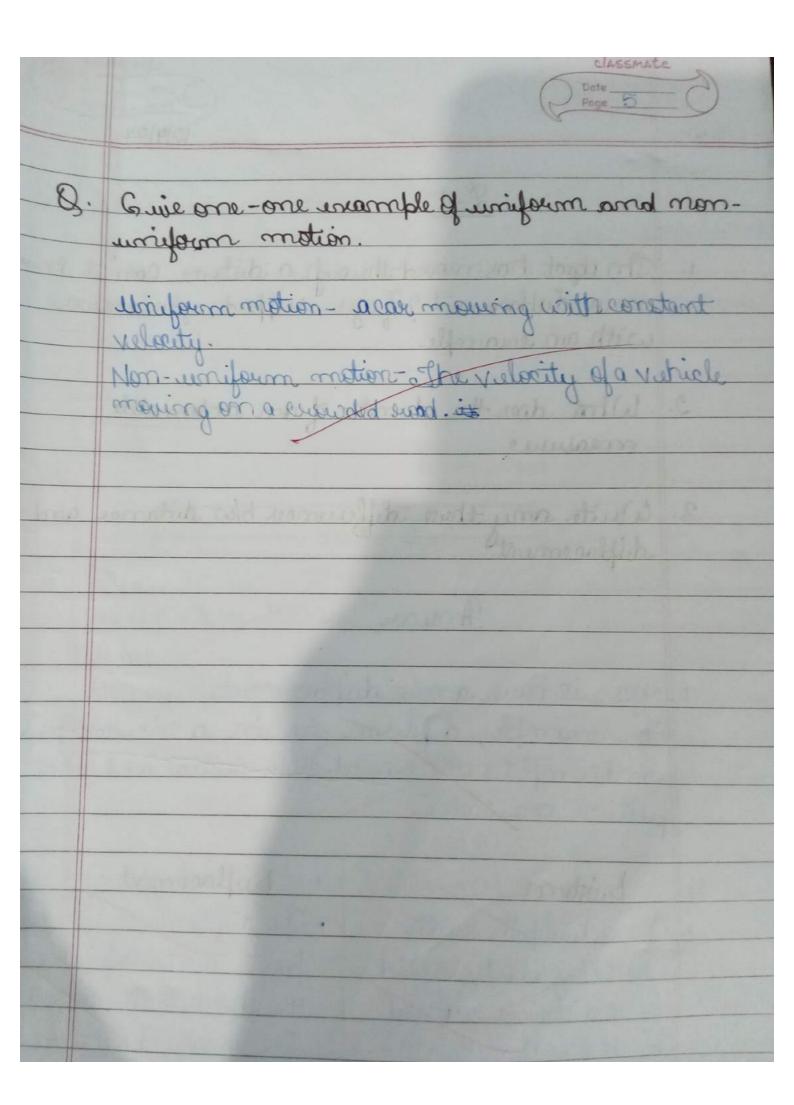
C.10. 28/3/22 Ch-8 Motion Rest + When a body does not change its faition the body is said to be in sect. Abice natived et is expected a method control of the beat as property of the beat as property of the second of the arigin > To describe the position of an object we need to specify a reference point called the origin. Distance > The actual path-length cowered by a body is beid to be distance covered by that body. NOte (1) The SI or Istandard writ of distance is meter, subusented by m? means by changing path the distance being being the distance will change between the two points. There may be infinite path between two points 111) Distance is a scalar quantity. Distance never de negative.

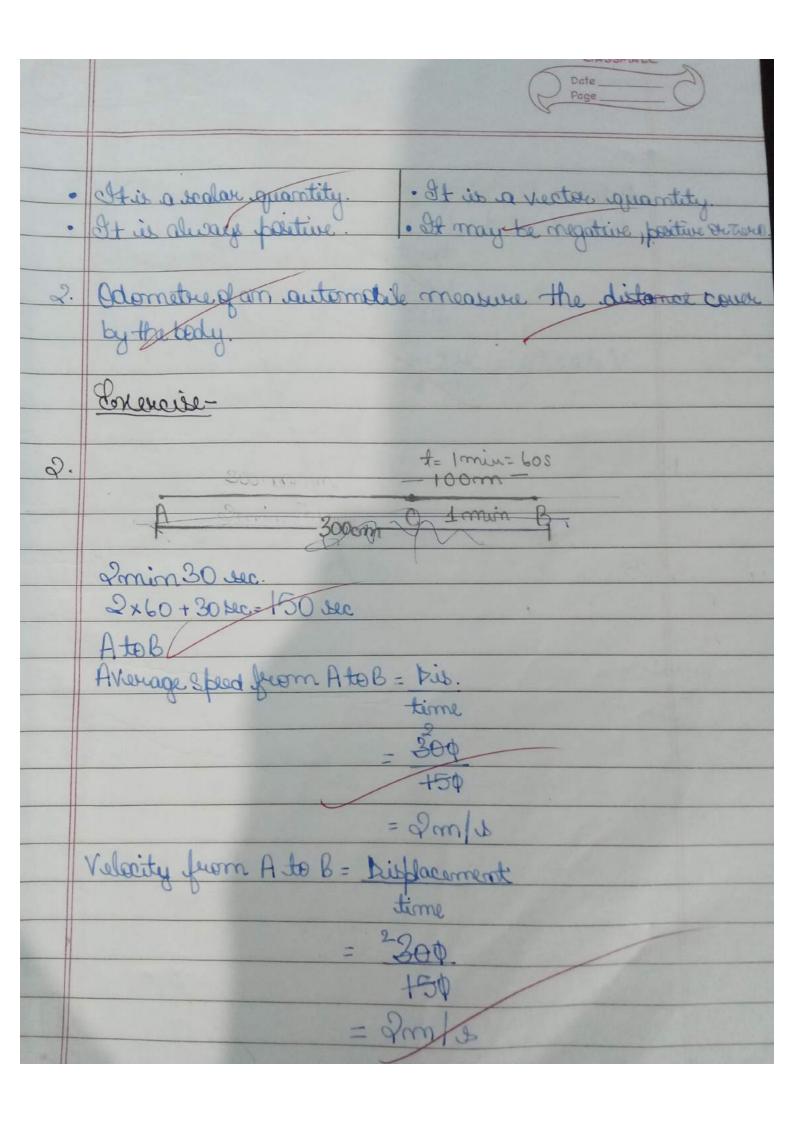
Displacement > Displacement between two points can be define as the shortest distance coursed in certain direction Note Dathe SI unit of displacement is moter, subusented by cm? 11) Displacement does not depends on path Displace. ment only depends on initial position and final bestign. (11) Displacement is a vector quantity. The direction of displacement always from initial position to final polition. IV) Buspacement maybe negative, positive or zore. Question 2: of fourner moves along the boundary of a square field of side 10 m in 40 s. What will be the magnitude of displacement of the former at the end of 2 ministers so 20 seconds from 9. resition lastion &

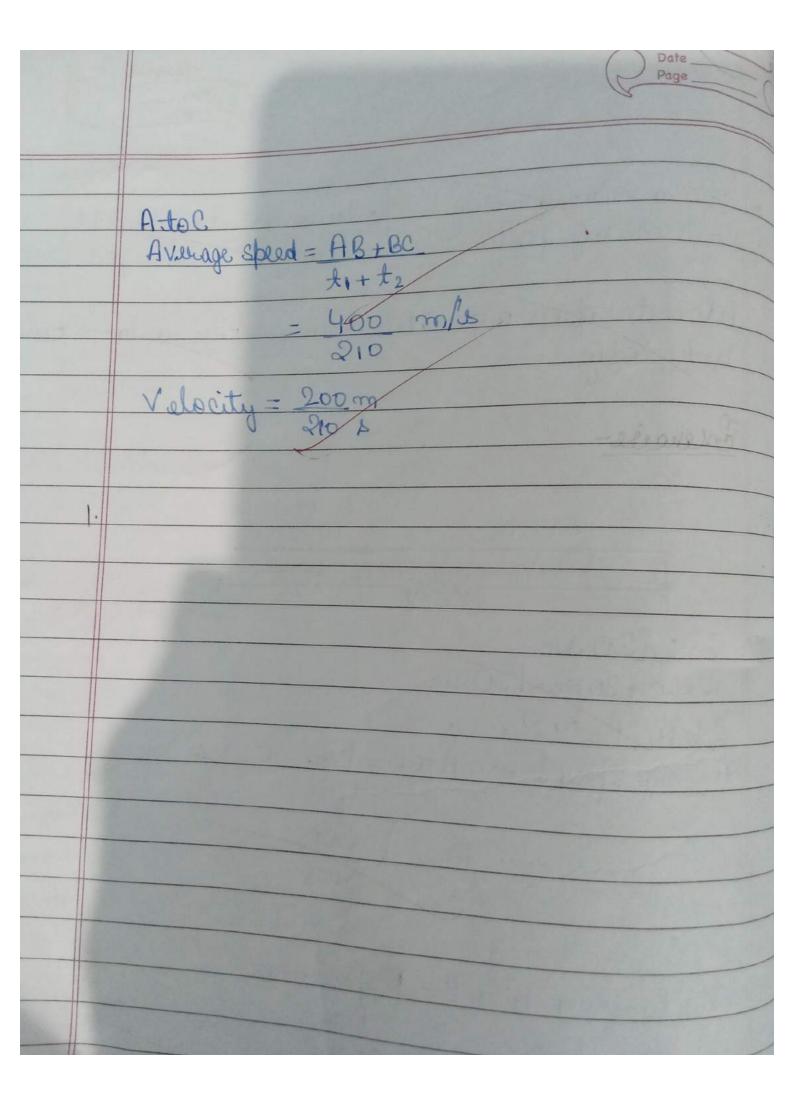


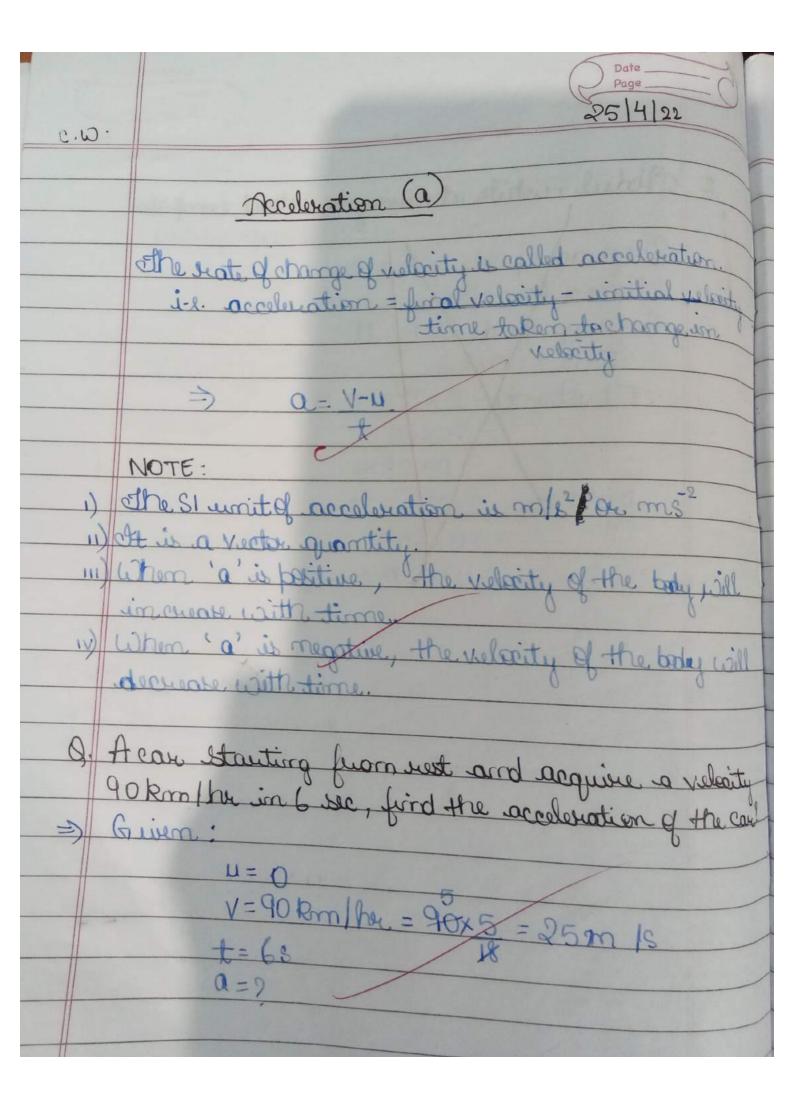
classmate C.W. Q. White the difference between distance and displacement Disblacement Distance 1: The actual both covered the covered by a body by a bedy. un certain direction 2 At is a soplar quaratity. 2 of it a rector quantit 3. It is always fortine 3. It may be mentive basitive or Take 4. Oft depends on path. 4 At does not defend on both Note: when a body moves in a straight line, the magnitude of displacement = the distance covered by the body. In other cases, tragnitude of displacement will be lesser than the distance.

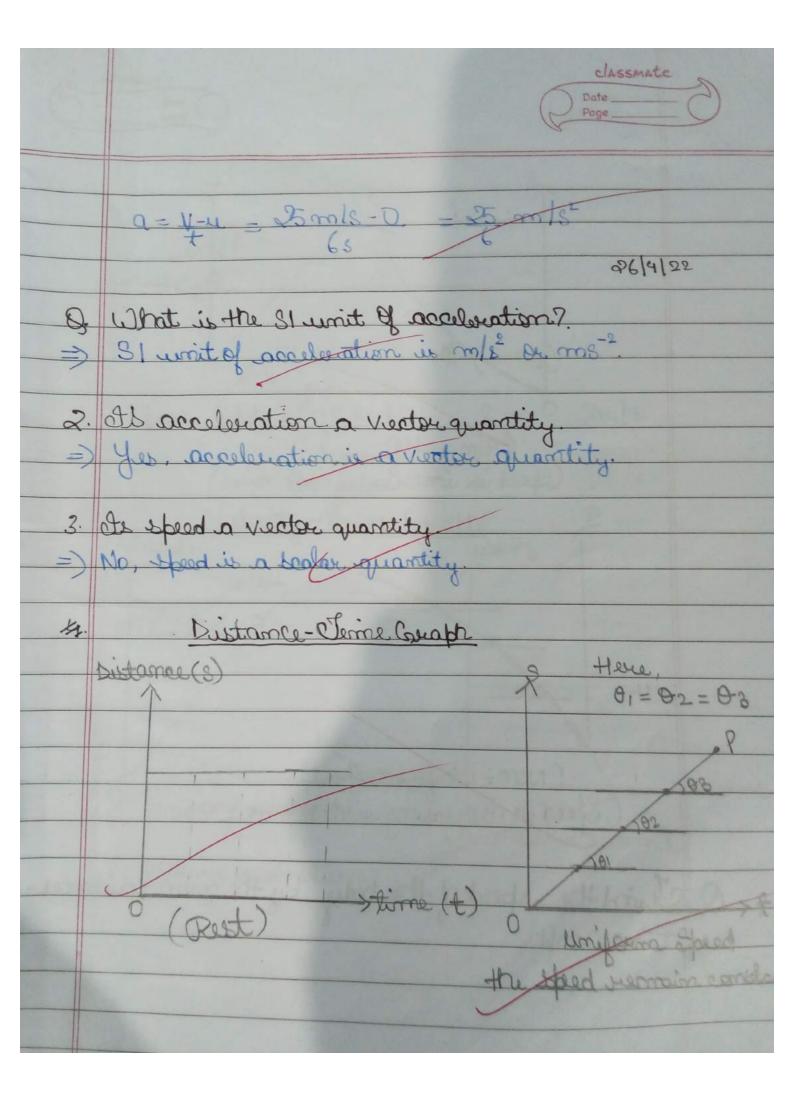


12/4/22 0.00 2-1 1. In dict has moved through a distance. Can it have Teres duffacement ? If yes, support your answer with an example. 2. What does the adometre of an automobile measure? 3. Write any there differences blo distance and diplacement Answer 1. yes, it have a zero diffacement. For enample, a beyon jogs in a circular back and completes and secund. This initial and final sition are some 3. Distance Disdacement · The actual bett length · The displacement b/w ites coward by a body is said paints can be defined as to be distance covered the shortest dis consider by that body un cotain directi

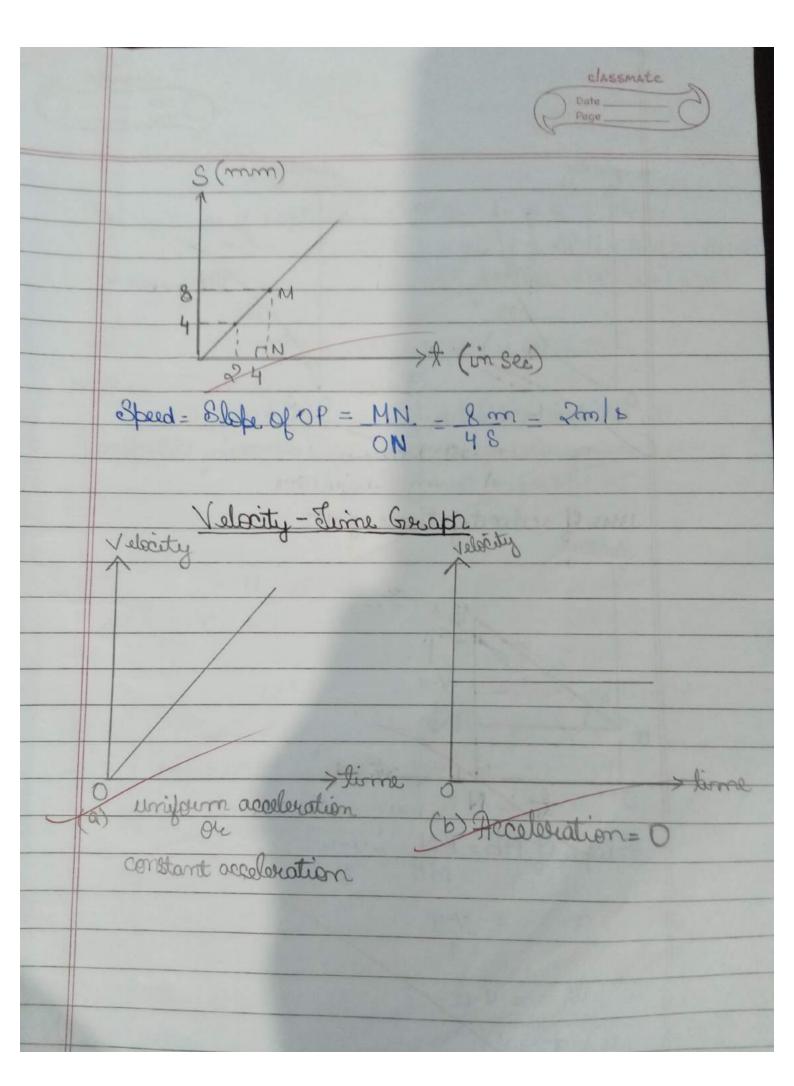








83 (Speed is increasing with time) Here, > 02 > 02 Speed is decreasing with time Fried the speed of the body by the given



classmate yelecity Velocity 02 Accoloration in creasing with time Mes of velocity-time graph yeliodel V-U Time

