**Science 10 Velocity time graph review assignment - Online Learning Assignment Jan 21, 2022**

**NAME:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

1. Watch the video: [Velocity Time Graphs Part 4 Area Kinematics Physics Tutorial - YouTube](https://www.youtube.com/watch?v=Ka9xWAmWBow&list=PLA479634BE2390113&index=7) and answer the following questions.
2. Complete the graph below as he does on the video going over to 9 seconds. Also show the calculation for getting the displacement = -8 m West and the distance = 28 m total from finding the areas.

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1. t (s)
2. Go to the web site:

[Physics Simulation: Graph That Motion (physicsclassroom.com)](https://www.physicsclassroom.com/Physics-Interactives/1-D-Kinematics/Graph-That-Motion/Graph-That-Motion-Interactive) and go through the 11 animations of motion types.

Then Draw and label the little graph (sketch) below for each of the first 10 animations: ( I have done #1 for you 😉)

**Animation 1 Animation 6**

 **Const Speed East, Stopped, Const Speed West**



**Animation 2 Animation 7**

**Animation 3 Animation 8**

**Animation 4 Animation 9**

**Animation 5 Animation 10**