

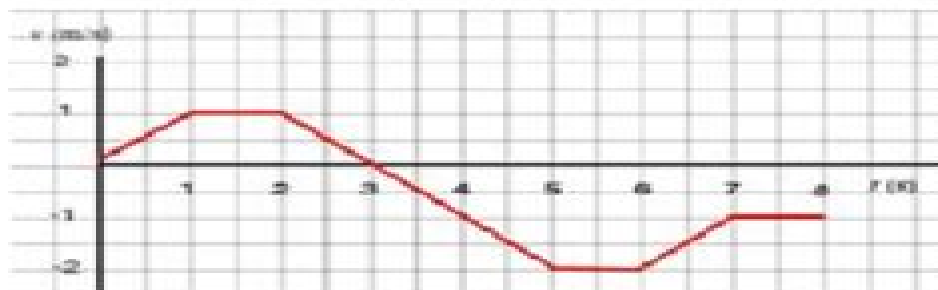
Physics - Semester 2 Review Sheet - DL

Please answer the following questions on separate paper making sure to show all of your work. You need work/explanation for EVERY question! Remember: **Equation, substitution, solution!** Please upload your work to Google Classroom when finished. This is due the day of your final and is worth 20 homework points.



Refer to the x - t graph above for question 1.

1. A. Describe the object's motion from B - C. How do you know?
- B. What is the object's velocity from C - D. How do you know?
- C. What is the object's velocity from D - E. How do you know?



The figure above shows a v - t graph. Refer to the graph above for question 2.

2. A. Describe the object's motion from 0 s to 1 s. How do you know?
- B. Describe the object's motion from 1 s to 2 s. How do you know?
- C. Describe the object's acceleration from 2 to 5 s. How do you know?
- D. How far did the object go during the first 3 seconds. How do you know?
3. A track star jumps at 30 m/s 20 degrees above the horizontal.
 - a. What maximum height does she reach?
 - b. How long is she in the air?
 - c. What is her range?
4. Explain what inertia is and Newton's first law of motion.
5. Draw the FBD of a plane flying at a constant speed.
6. A tension of 70 N pulls up on a 5 kg bucket of water in a well. What is the acceleration of the bucket?
7. Determine the distance a 2000 kg car takes to stop once it slams on its brakes at 35 m/s and the coefficient of kinetic friction is 0.5.
8. Explain why you feel flung out while turning in a car.
9. Explain Newton's Third Law and provide an example.

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