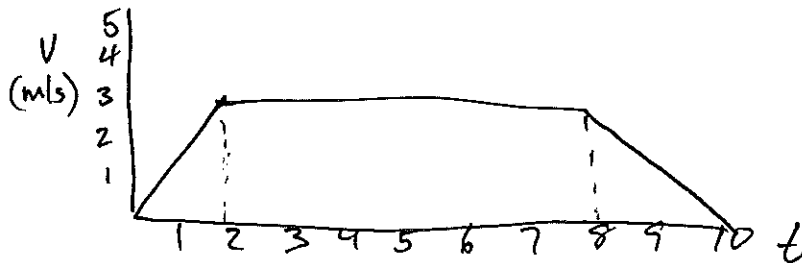


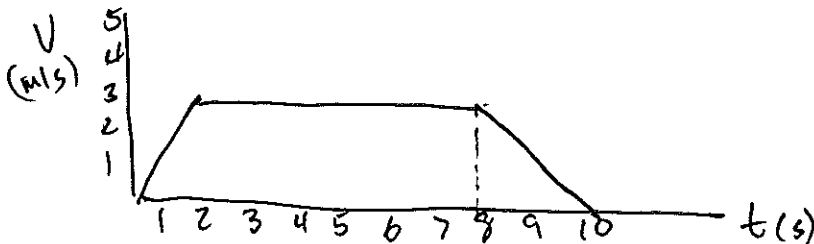
Review for Ch 3 and 4 Test Blended Physics

1. Hovde drops a student off Marcus. The student hits the ground in 9.0 s. How fast is the student moving when the student hits the ground? (Not Zero)
2. Look over how to calculate distance and displacement.
3. Hovde throws a student straight up on the moon which has $1/6$ the gravity of earth. If the initial velocity of the student was 20. m/s how long will it take for the student to return to the initial height the student was thrown? (So up and down)
4. How do you calculate average speed and how is this different from calculating average velocity? You will have problems with this.
5. Understand what the slope means on a d-t graph. Remember you can have positive and negative slope. What does positive and negative slope mean?
6. Be able to rearrange equations.
7. Be able to convert from m/s to mph. (1 mile / 1609 m)
8. Understand which way gravity pulls and if it is positive or negative.
9. Hovde drives his car from rest for 12 s and accelerates at 2.0 m/s^2 . How far did Hovde travel?
10. What is the distance traveled from 0 to 6 seconds on the graph?



*Break into 2 problems
1-2 s
and
2-4 s then add together*

11. Hovde tosses another student straight up at 6.0 m/s . How high does the student go?
12. REMEMBER that a curve on a d-t graph means something is either accelerating or decelerating. What curve is accelerating and what curve is decelerating?
13. What is the distance traveled from 8 - ~~9~~¹⁰ sec?



14. Be able to read graphs and do calculations with the data from the graph.
15. Hovde throws another student up at 12 m/s on the moon that has $1/6$ the gravity of earth. What is the DIFFERENCE in the maximum height the student reaches on the moon compared to earth?
16. All objects fall at the same rate no matter what the size in the absence of air resistance.

17. Hovde is traveling 4 m/s and then accelerates at 5 m/s² for 4.0 s what was his final velocity?
18. Remember the greater the slope the greater change in either velocity or acceleration depending on the type of graph.
19. Hovde accelerates at 18 m/s² from rest for 2 seconds. How far did he go?
20. Hovde drops another student off Marcus. If the student hits the ground in 4.5 s how high is Marcus?
21. Know what displacement is.