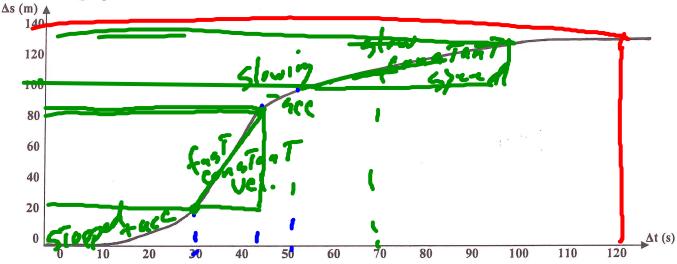
12.23=
Speed - distance 3.18 Time Name
(DS = (m, n) (DS GRAPHS OF MOTION 1 1. A racer covered a 4500 m course in 18 Mutes. Calculate the velocity in meters per second.
5th 4500 18m/n 605 - 100
2. Jane ran at a constant speed of 275 650 to 30 minutes? Frow far did she run in meters? Km? 5 - 4950 M 445
3. A photon of light travels at 3 x 10 ⁸ m/s (the speed limit of the universe). If it takes light about 9 minutes to reach Earth from the sun, what is the Earth-Sun distance?
5 = VI = (3×108m) (5404) - 1620×10m
4. Does this graph of a trip by a car represent a real situation? Explain.
Distance Bucknum Time
5. A car drives on a road at a speed of 35 mph. Convert this into m/s and compare the distance the car
travels in one second to the size of our classroom. 35 m N 25 100 100 100 100 100 100 100 1
6. Calculate the slope of the following graphs. Be sure to state units Δs (km) Δs (m) Δs (m
200 150 100 100 100 100 80
50 At (hr) 1 0.5 1.0 1.5 2.0 At (s) 60 1 2 3 4 5 (wks)
lope= 134: 200 Slope = 134 = 5m = 2.5m3) SICR 2018
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7. Refer to the graph.



a. Describe the "trip".

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10-30 acc Then 30-40 cosses 40

b. At what time is the person going the fastest? Calculate this speed.

c. How fast is the person going at time 70 seconds?

If or the entire trip?
$$\frac{30M}{500} = \frac{30M}{500} = \frac{30M$$

d. What is the average speed for the entire trip?

8. A train travels 100 km/hr for 0.52 hr then 50 km/hr for the next 0.24 hr, and finally 1.5 km/hr for the last 0.65 hr. What is the average speed of the train for this trip?

