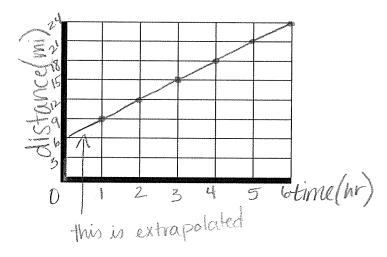
Motion Graphs

Data set 1

Dala SEL I	
Distance	
(miles)	
9	
12	
15	
18	
21	
24	



Explain the motion of the object in words:

Fast motion in + direction for 1 sec Constant slower speed from 1-6 sec

Questions

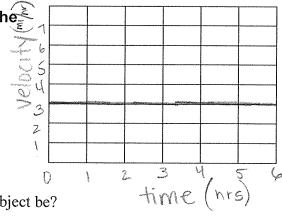
a. Where did the object start?

Thr@9 miles, Ohr@ lomiles

b. How fast is the object going? In what direction?

9m/s+, then 3m/s+

Create a Velocity vs time graph from the information above



or you could make it like we had in the slides

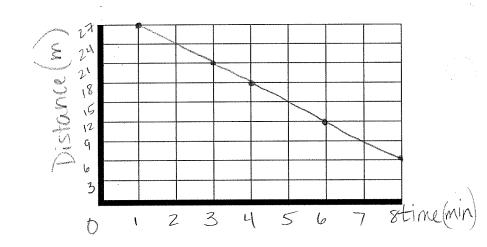
c. After 10 hours of travel where would the object be?

$$d = (lohr)(3mi/hr)$$

$$=30mi$$

Data set 2

Time	Distance
(min.)	(meters)
1	27
3	21
4	18
6	12
8	6



Object is noving @ a constant speed in the opposite direction

Questions

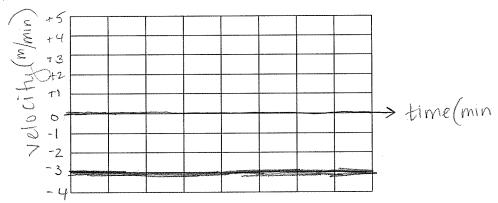
a. Where did the object start?

30m

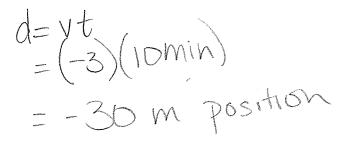
b. How fast is the object going? In what direction?

 $\frac{-6}{5} = -3 \text{ m/min}$

Create a velocity vs time graph from the information above

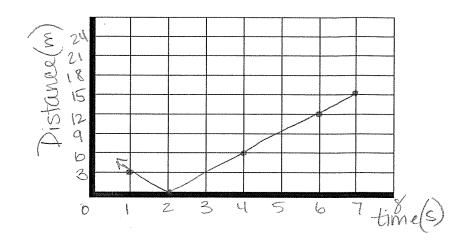


c. After 10 min. of travel where would the object be?



Data set 3

Time	Distance
(Seconds)	(meters)
1	3
2	0
4	6
6	12
7	15



constant speed in marative, turns around, constant speed in positive for 5 sec

Questions

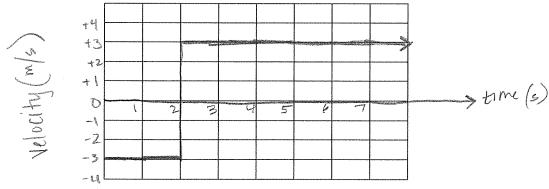
a. Where did the object start?

propably (on (extrapolated)

b. How fast is the object going? In what direction?

3m/s, first in neg direction then in positive direction

Create a velocity vs time graph from the information above



c. After 10 seconds of travel where would the object be?

$$d = Vt$$

= $(3^{m/s})(10) = 30 m$

