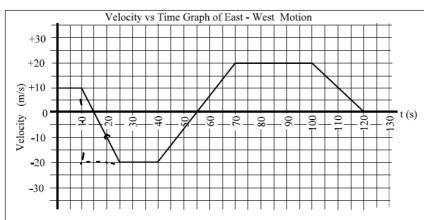
Motion Graph # 8



1. What is the object's velocity at the 20 s point?

-10 m/s

2. What is the acceleration at the 5 s point?

371

3. What is the acceleration at the 15 s point?

-2mk2

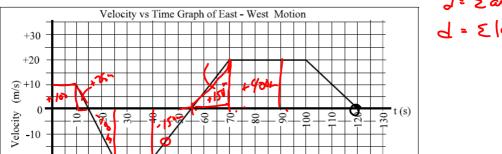
4. What is the acceleration athe 110 s point?

- ۱ سارر

@-15,55-120 s

Motion Graph #8

-20 -30



6. When is the object stopped?

15,85, 120 - 130s

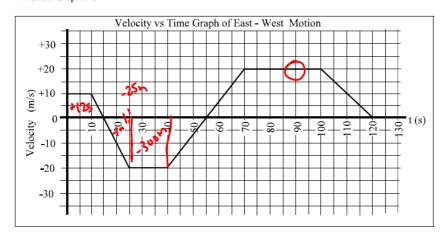
7. What is the displacement at the 25 s point?

What is the distance travelled in the first 25 s? 8.

What was the average velocity for the first 25 s? 9.

What is the object doing at the 45 s point? 10.

Motion Graph # 8



1.25 $\frac{26\frac{1}{3}}{25}$ $\frac{26 - 27s}{25 - 30s} \quad \frac{1}{2} \quad \text{short}$

11. When did the object first return to the starting point? $d = 22^5$

26.256

12. What was the object's average speed in the first 40 s?

d/E = 525m = 13 m/s

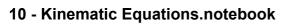
13. What was the average velocity in the first 40 s?

3/1 = -275m = -6.9m/s

14. What is the object doing at the 90 s point?

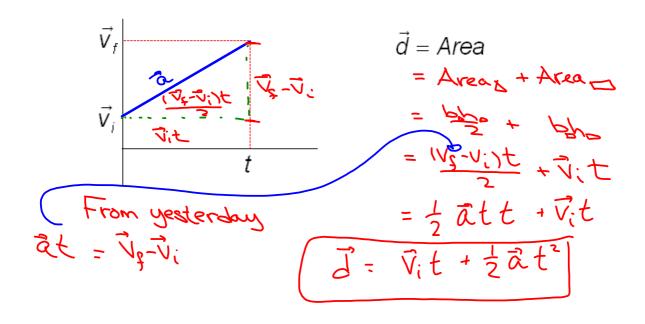
const 0" - 420h/s

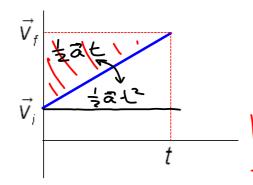
7 - 0 18 E or +20/5



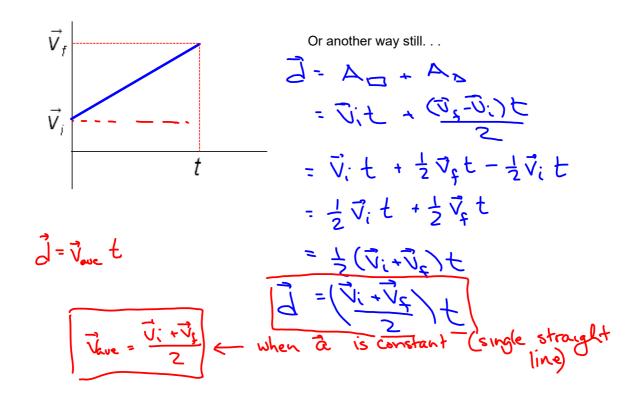
February 25, 2022

Questions for quest?





Or looking at in another way. . .



Kinematics Equations:

$$\vec{d} = \vec{v}_{ave}t$$

$$\vec{d} = \vec{v}_{i} + \vec{a}t \implies \text{missing } \vec{J}$$

$$\vec{d} = \vec{v}_{i}t + \frac{1}{2}\vec{a}t^{2} \implies \text{missing } \vec{v}_{i}$$

$$\vec{d} = \vec{v}_{i}t - \frac{1}{2}\vec{a}t^{2} \implies \text{missing } \vec{v}_{i}$$

$$\vec{v}_{ave} = \frac{\vec{v}_{i} + \vec{v}_{f}}{2} \quad \text{OR } \vec{d} = \frac{\vec{v}_{i} + \vec{v}_{f}}{2}t \implies \text{missing } \vec{c}$$
No equation without time,

Homework: Quest tomorrow on d-t and v-t graphs. page 1: d-t graph 10 questions page 2: v-t graph 10 questions

d-t graphs.pdf phys 11 v vs t graphs.pdf