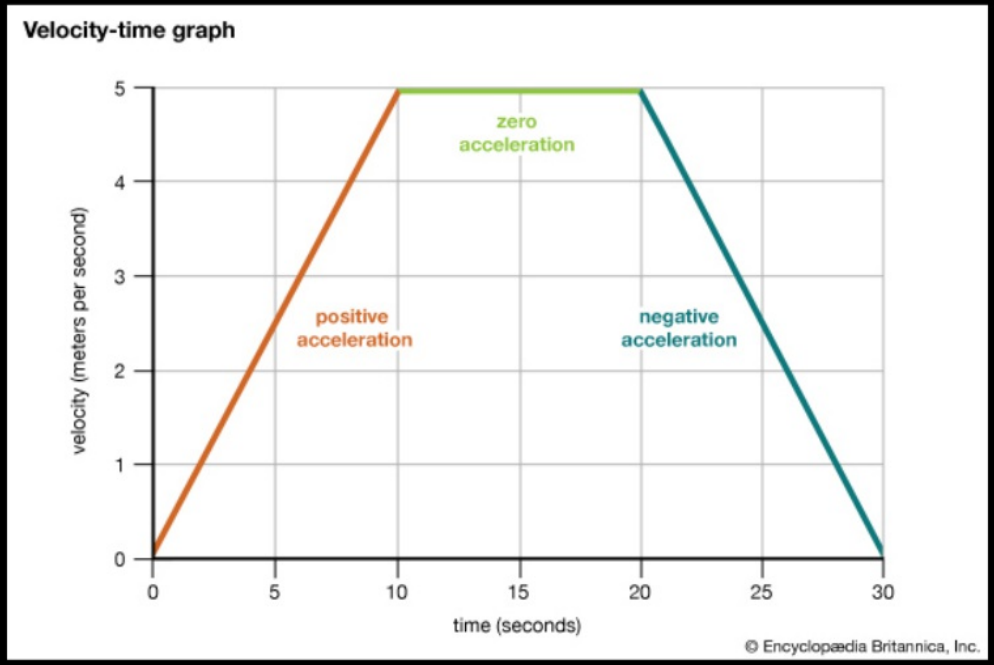
4.14.20

Graphing: Velocity Time Graphs

Today's Objectives:

- Distinguish between PT and VT Graphs
- Learn VT graphs for all 7 types of motion

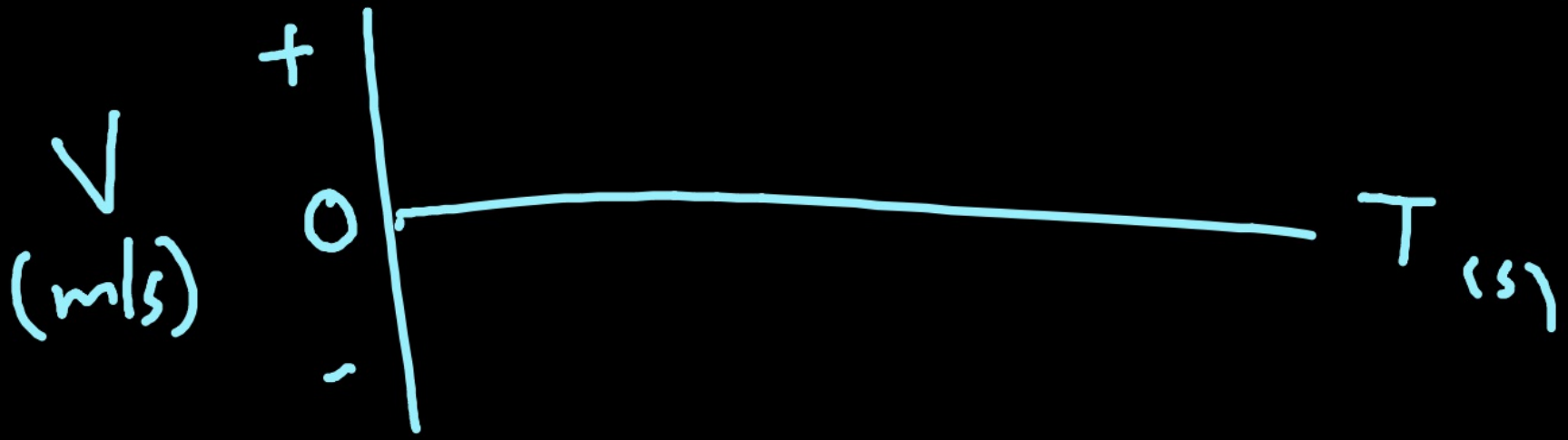


(PT)

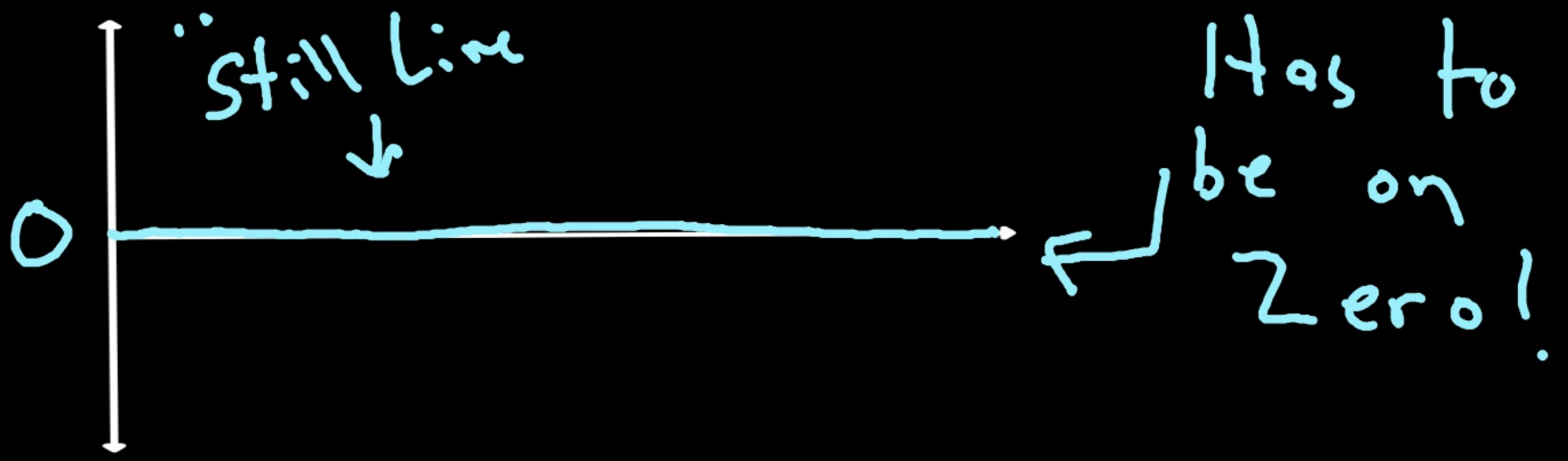
A position-time graph tells you Where you Are

(V.T.)

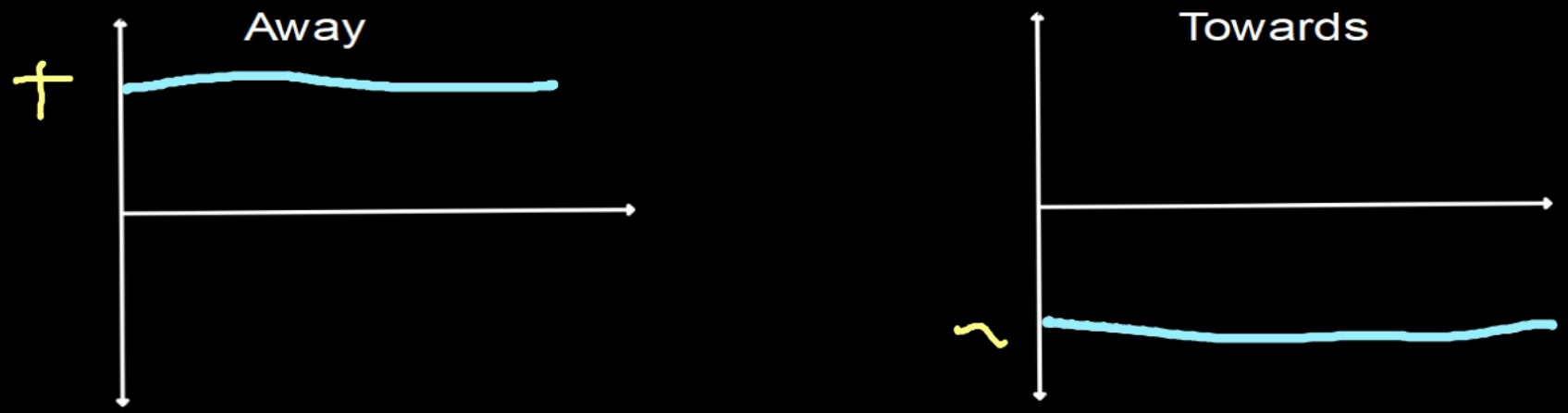
A velocity-time graph tells you How fast you're going



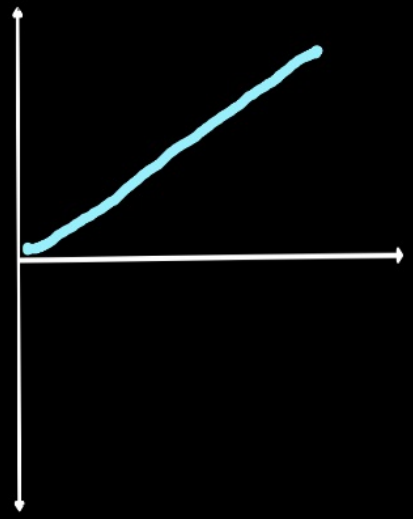
When an object stays still for 10s, its velocity is Zero. m/s



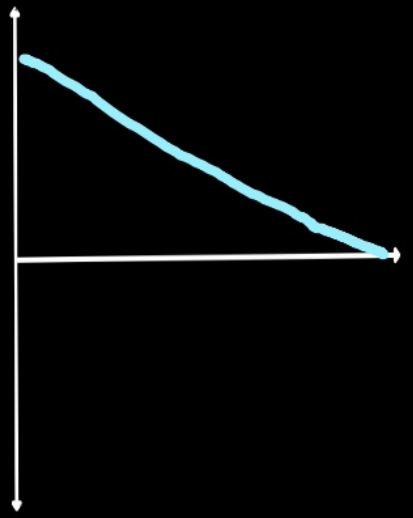
Constant Velocity



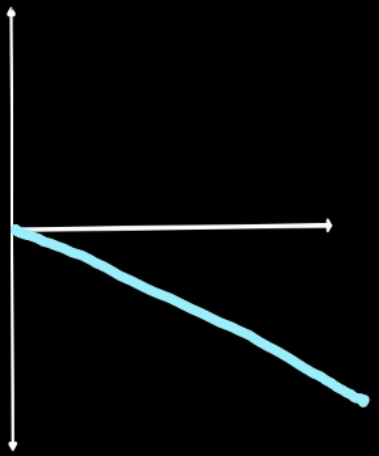
Speeding up away



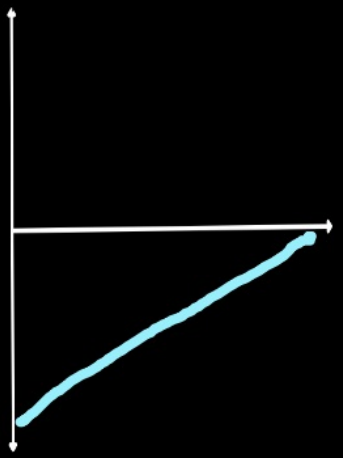
Slowing Down Away



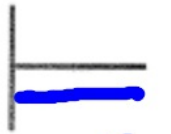
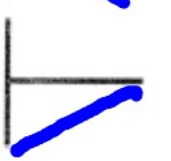
Speeding up towards

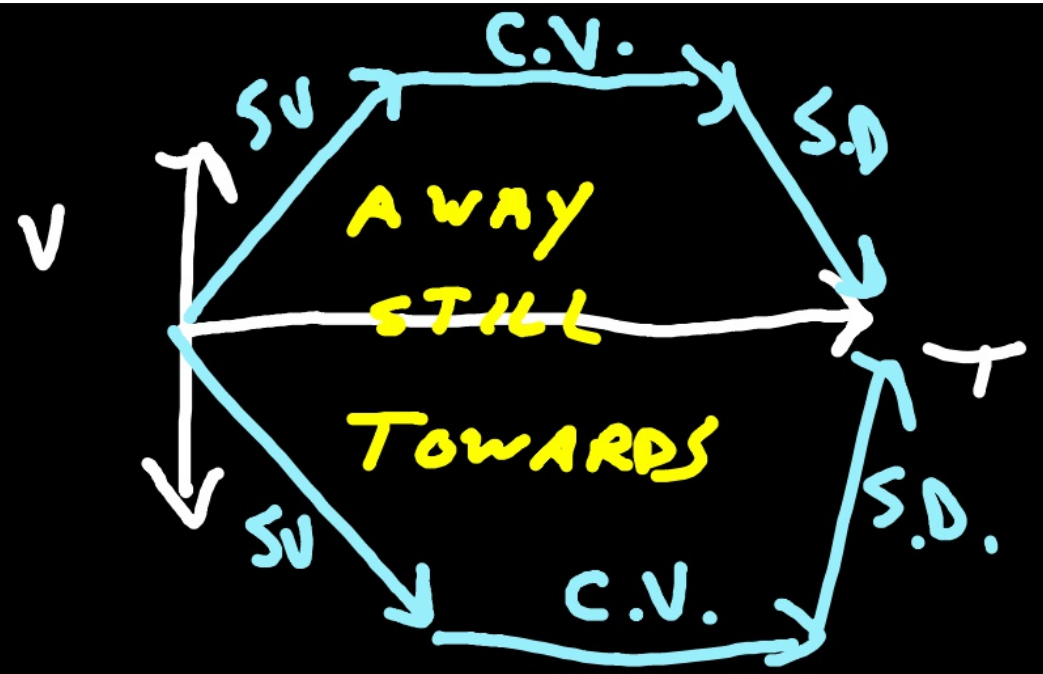


Slowing down towards



Velocity vs. Time Graphs
(7 motions summary)

I) Type of Motion	II) v-t sketch
1) Still	
2) CV Away	
3) CV Towards	
4) Speed Up Away	
5) Slow Down Away	
6) Speed Up Towards	
7) Slow Down Towards	

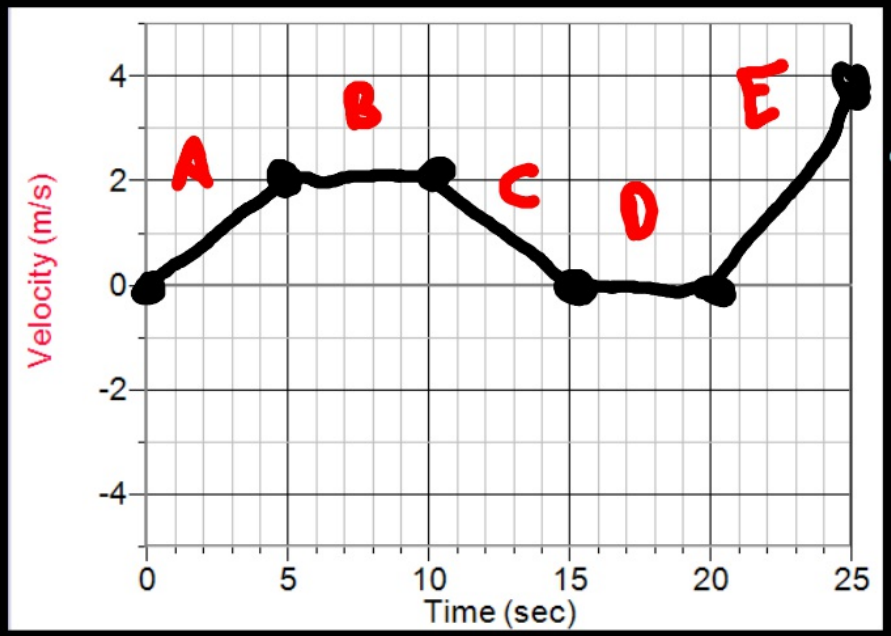


Acceleration - Change in velocity over time

1) Speed Up 2) Slow Down 3) Change Direction.

Slope of a V/T = Acceleration

Units: m/s^2 or $m/s/s$



A: 2/5 m/s^2

B: 0/5

C: -2/5

D: 0/5

E: 4/5