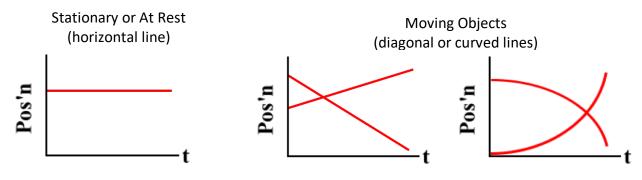
# Position-Time Graphs: Conceptual Analysis Video Notes

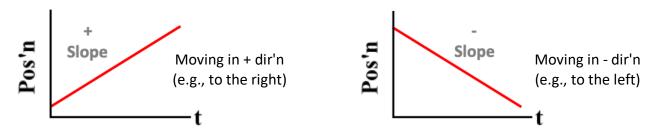
#### Questions

- How can a description of an object's motion be determined from a position-time graph?
- And how can a position-time graph be related to other representations of an object's motion ... like dot diagrams?

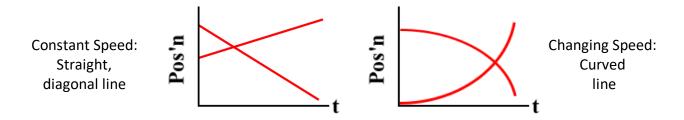
## Stationary vs. Moving Objects:



## Moving in "+" Direction vs. Moving in "-" Direction

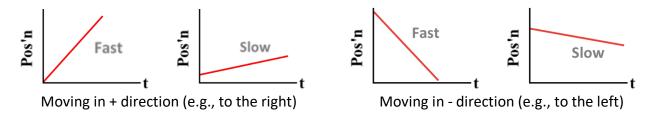


### **Constant Speed vs. Changing Speed**

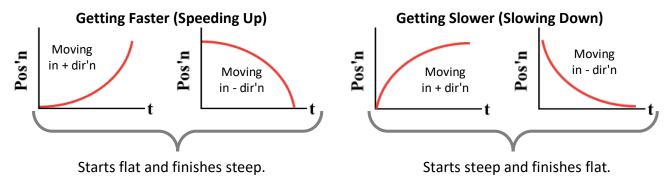


#### **Fast versus Slow**

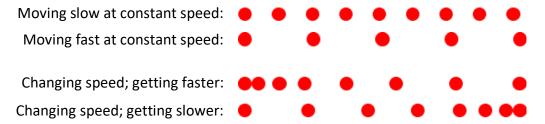
Speed is related to the steepness of the line. Steeper lines indicate higher speeds.



## **The Four Changing Speed Curves**



Dot Diagrams: pay attention to spacing between dots; arrows indicate direction of motion



# **Strategy for Relating Dot Diagrams to Position-Time Graphs**

