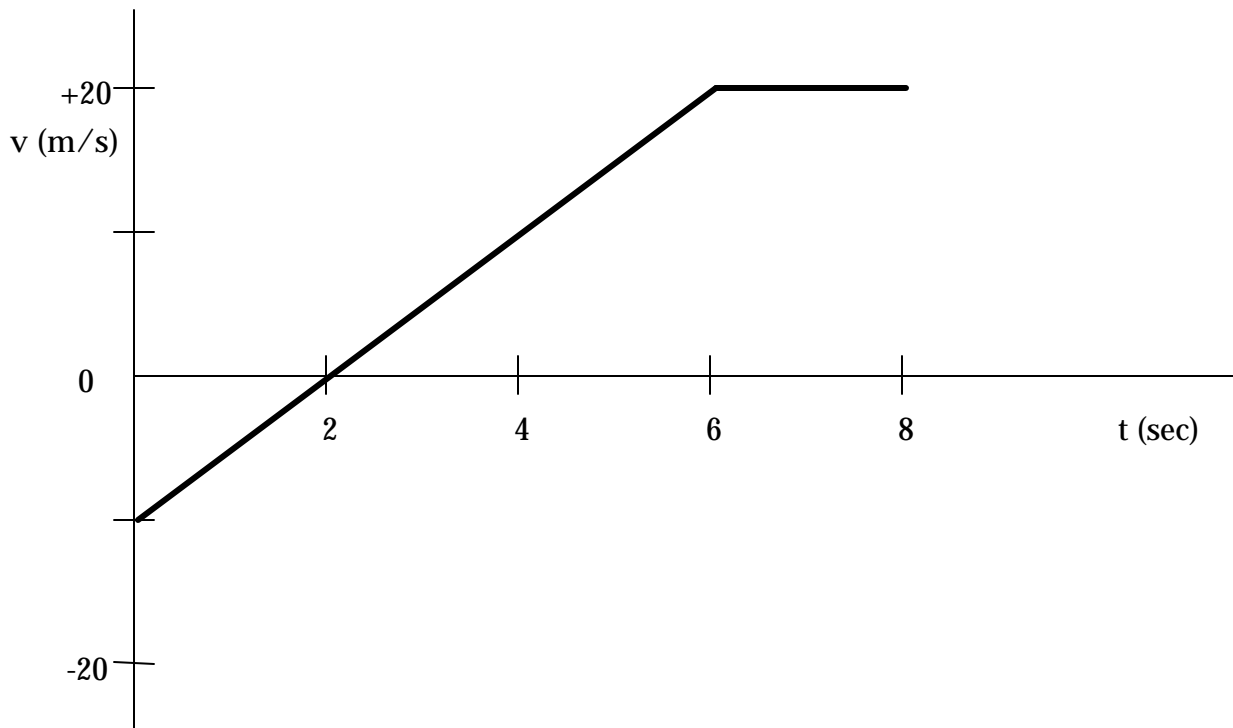


W1.02**POSITION, VELOCITY & ACCELERATION VS. TIME INTRO EXAMPLE**
(9/17/2004)

Given the following plot that shows the velocity of an object as a function of time.



1. Describe the motion of the object. Assume that the object's initial position is +5 m.
The object begins moving backward slowing down for 2 seconds, then is moving forward speeding up for four seconds, and then is moving forward at constant speed for two seconds.
2. Determine the Δs of the object for the first two seconds.
-10 m
3. Determine the Δs of the object for the next four seconds.
+40 m
4. Determine the Δs of the object for the last two seconds.
+40 m
5. Determine the position of the object at the end of each interval.
-5 m, +35 m, +75 m
6. Plot s vs. t .
7. Plot a vs. t .

