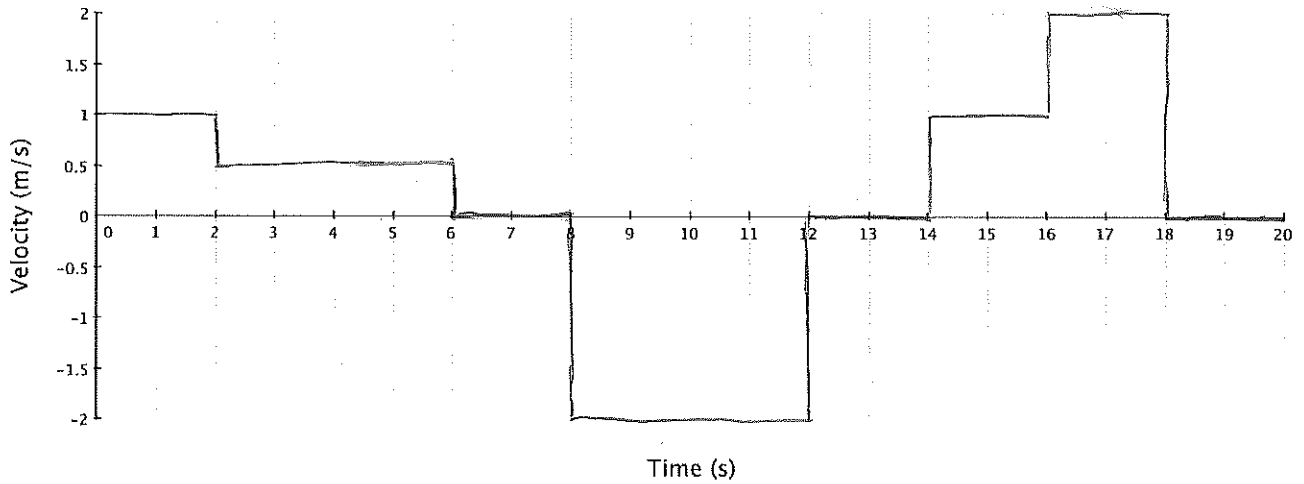
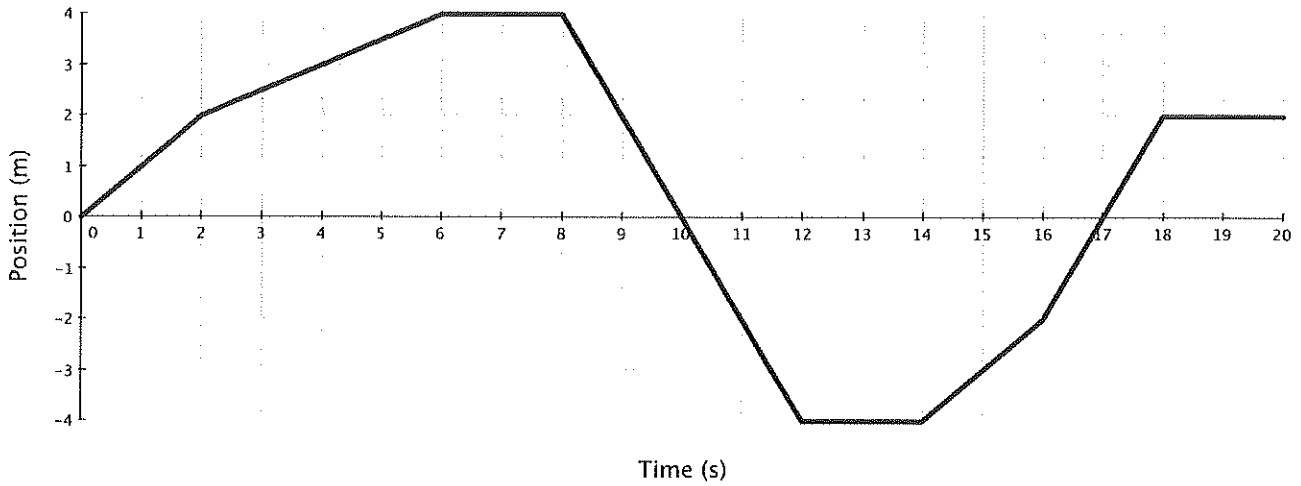


## Practice: p-t, v-t, a-t Graph

### Example 1



The object starts out going North, be able to identify sections where the object 1) move North, 2) move South, 3) stay at rest, 4) describe the motion.

1. 0 - 6s

14 - 18s

2. 8 - 12s

3. 6 - 8s

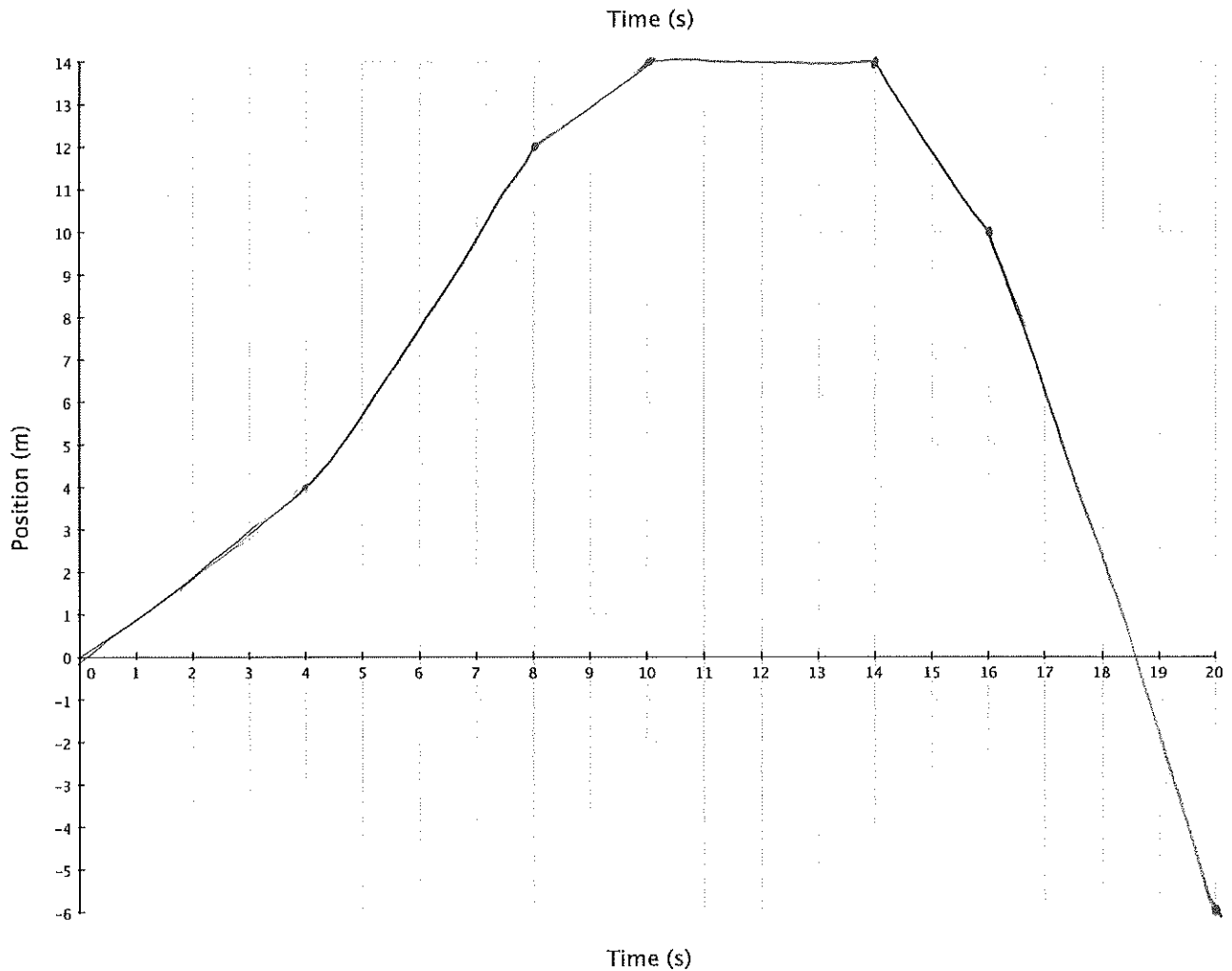
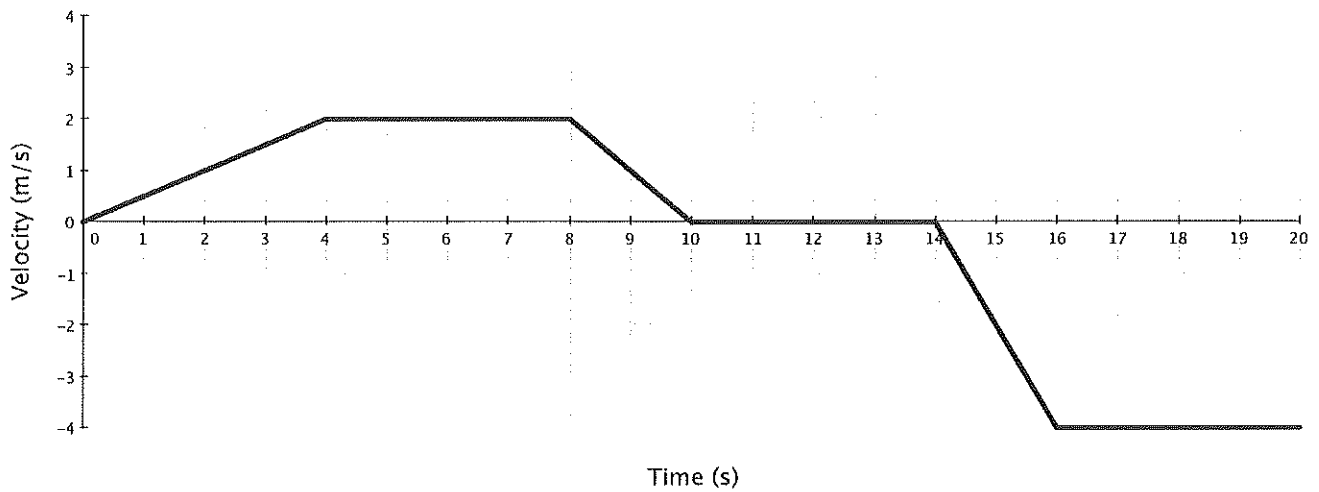
12 - 14s

18 - 20s

4. 0 - 2s move north  
2 - 6s slow down  
6 - 8s stop

8 - 12s move south  
12 - 14s stop  
14 - 16s move north  
16 - 18 speed up  
18 - 20 stop

## Example 2



The object starts out going East, be able to identify sections where the object 1) speed up in east, 2) slowdown in east, 3) speed up in west, 4) slowdown in west, 5) stay at rest, 6) describe the motion, 7) calculate average velocity, average speed.

Also convert to a-t.

$$\frac{-6}{20} = -0.3 \text{ m/s West}$$

$$\frac{34}{20} = 1.7 \text{ m/s}$$