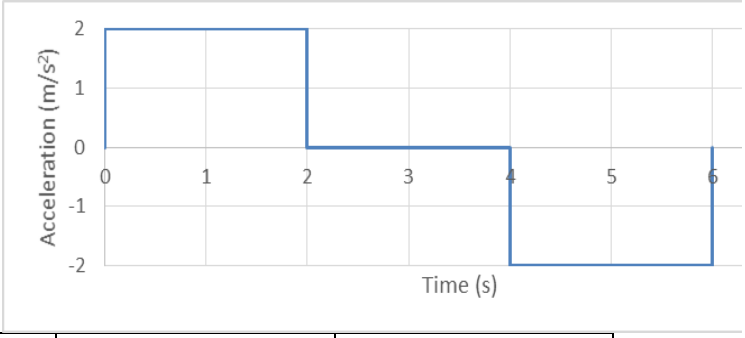
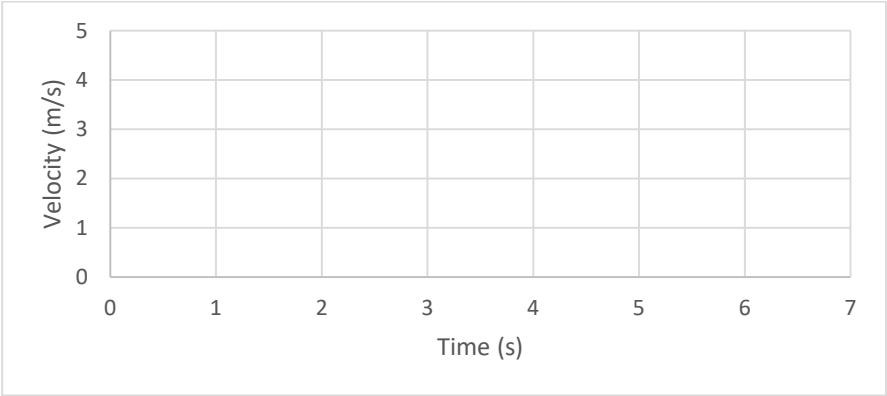
Inferring from kinematics derivatives: Answer the following questions based on the acceleration graph. Note the initial velocity and position are zero and the final position is 16 m.



a. Analyze the velocity versus time by completing the following table and graph

	0 < t < 2	**2 < t < 4**	**4 < t < 6**
a = $\frac{dv}{dt}$ =			
Is the velocity line in this segment constant, linear increasing, linear decreasing, concave up or concave down?			



b. Analyze the position versus time by completing the following table and graph

	0 < t < 2	**2 < t < 4**	**4 < t < 6**
v = $\frac{dx}{dt}$ =			
Distance covered (area under v vs. t curve)			
Is the position line in this segment constant, linear increasing, linear decreasing, concave up or concave down?			

Inference