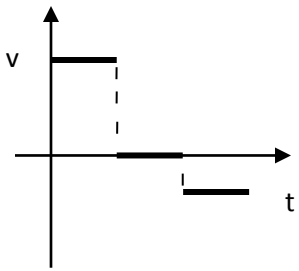
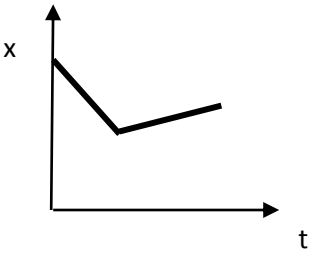
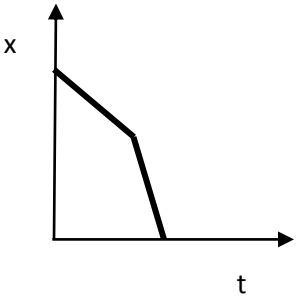
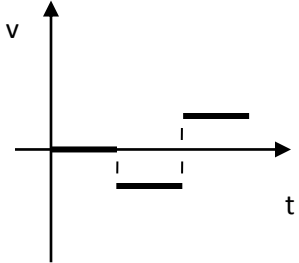


Graph Comparison

Name _____ Date _____ Block _____

Fill in the blank squares for each number.

	X vs T	Written Description	V vs T
#1			 <p>A velocity vs time graph with velocity (v) on the vertical axis and time (t) on the horizontal axis. The graph shows a horizontal line at a positive velocity value for a certain duration, followed by a vertical dashed line indicating a change in velocity, and then a horizontal line at a negative velocity value for another duration.</p>
#2		<ul style="list-style-type: none"> • Stopped • Positive constant velocity (faster) • Stopped 	
#3	 <p>A position vs time graph with position (x) on the vertical axis and time (t) on the horizontal axis. The graph shows a line that starts at a positive position, decreases linearly to a lower positive position, and then increases linearly to a higher positive position.</p>		
#4	 <p>A position vs time graph with position (x) on the vertical axis and time (t) on the horizontal axis. The graph shows a line that starts at a positive position, decreases linearly to a lower positive position, and then continues to decrease linearly until it reaches the zero position on the x-axis.</p>		
#5			 <p>A velocity vs time graph with velocity (v) on the vertical axis and time (t) on the horizontal axis. The graph shows a horizontal line at a positive velocity value for a certain duration, followed by a vertical dashed line indicating a change in velocity, and then a horizontal line at a negative velocity value for another duration.</p>

Velocity

1. Pete is driving down 7th street. He drives 150 meters in 18 seconds. Assuming he does not speed up or slow down, what is his velocity in meters per second?
2. A plane's average speed between two cities is 600 km/hr. If the trip takes 2.5 hrs. How far does the plane fly?
3. George walks to a friend's house. He walks 750 meters North, then realizes he walked too far. He turns around and walks 250 meters South. The entire walk takes him 13 seconds. What is his velocity for the entire walk?
4. How long will your trip take (in hours) if you travel 350 km at an average speed of 80 km/hr?
5. How far (in meters) will you travel in 3 minutes running at a rate of 6 m/s?

Acceleration

1. A roller coaster is moving at 25 m/s at the bottom of a hill. Three seconds later it reaches the top of the hill moving at 10 m/s. What was the acceleration of the coaster?
2. A car traveling at 15 m/s starts to decelerate steadily. It comes to a complete stop in 10 seconds. What is the car's acceleration?
3. A train moves from rest to a speed of 25 m/s in 30.0 seconds. What is its acceleration?
4. A meteoroid changed velocity from 1.0 km/s to 1.8 km/s in 0.03 seconds. What is the acceleration of the meteoroid?