## iOLab Match Graph

**Purpose:** To read and interpret one-dimensional position graphs.

If you haven't already done so, go to <u>http://www.iolab.science/getting\_started.html</u> and follow the steps to learn how to use your iOLab device.

Place your iOLab on a table or shelf that is at least a meter long. Make sure your dongle (the red USB device) is inserted and that your computer has installed it. Open the iOLab app. On the iOLab window, select the Wheel Position as shown below.

IOLab (1.77.15 IOLab Edit View				×
	IOLab	🖋 Dongle ID 119015 - CONNECTED 😨 Remote 1: ID 118004 - 3.04V - Config 4 🛛 🚦 Remote 2: Not Paved		
	• Recor	5 🕂 Add run 🖸 Reset 👍 Q.+ 🔶 🗽 🔄 📷 🌰 🔯 + Remote 1+		
	Data sets	Wheel - Position (100 Hz)		
	Fixed duration (s) n.a.	20		
	Sensors (Remote 1)	1.5		
	Accelerometer (200 Hz)	0.5		
	Analog 1/2/3	Ē 00		
	Analog 7	-0.5		
	Analog 8	-1.0		
	Analog 9	4.5		
	Barometer	-2.0		
	Battery	0 1 2 3 4 5 6 7 8 9 1 Ø Ø Rezerosensor Time (s)		
	Digital	W O Rezelo sensor		
	<ul> <li>Electrocardiogram (9)</li> <li>Force (200 Hz)</li> </ul>			
	Gyroscope			
	High Gain			
	Light			
	Magnetometer			
	Microphone			
	RSSI (100 Hz)			
	Thermometer			
	Wheel (100 Hz)  Position Velocity Acceleration			

Your goal is to match the three graphs shown below. Once you match a graph, take a screen shot of it and save it. Once you have matched all three, place the three graphs in a Word document with your name on it and submit it on Canvas.





