

Name: \_\_\_\_\_ Date: \_\_\_\_\_ Class: \_\_\_\_\_

## Activity Data Sheet

**First setup:**

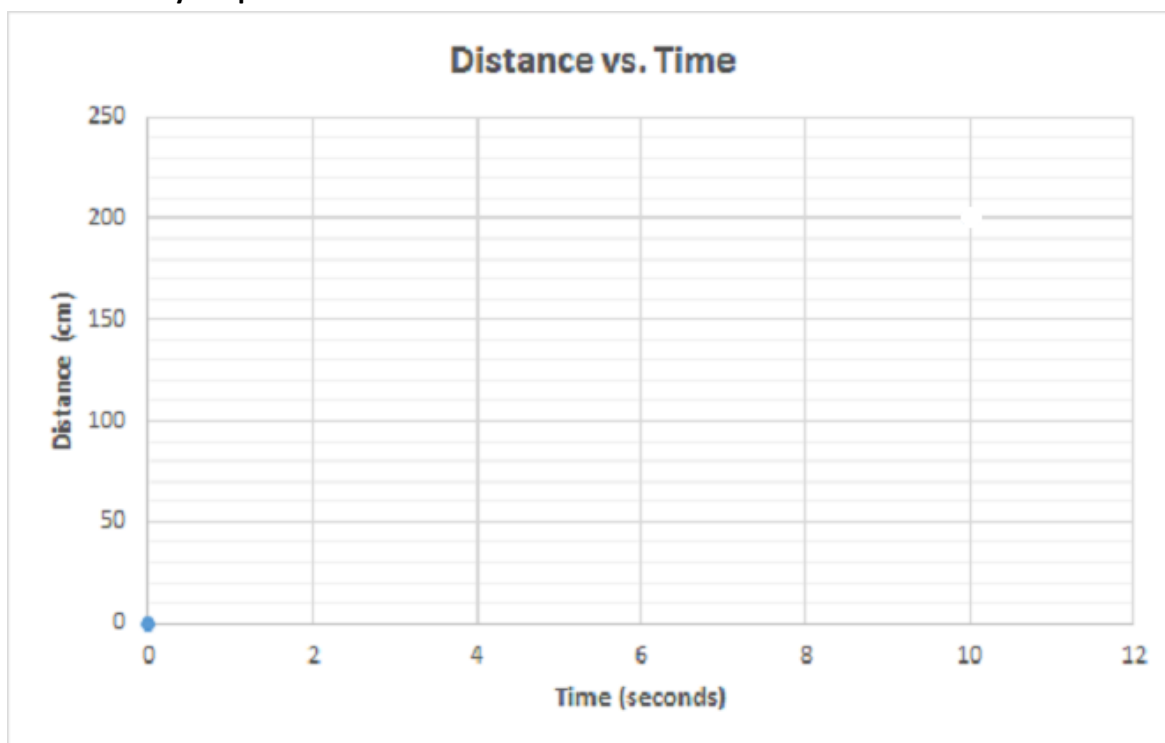
Wheel diameter = \_\_\_\_\_ cm; wheel radius = \_\_\_\_\_ cm

**Data for linear velocity assessment:**

Estimation for 200 cm run: \_\_\_\_\_ seconds

Trials	Times [s]			
	50 [cm]	100 [cm]	150 [cm]	200 [cm]
1				
2				
3				
4				
5				

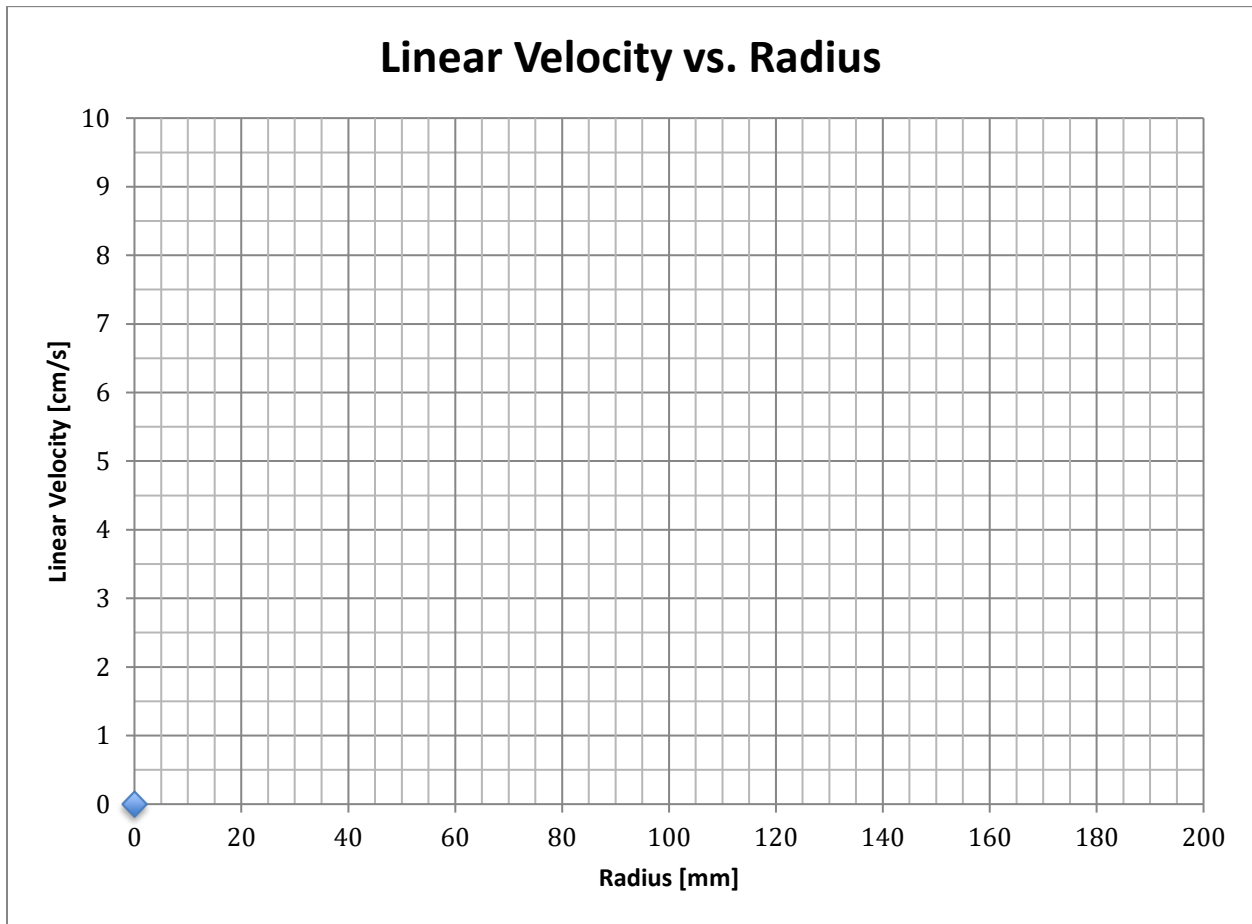
**Linear Velocity Graph 1:**



Estimated line of best fit equation: \_\_\_\_\_

Average Linear Velocity: \_\_\_\_\_

Angular Velocity Graph 1:



Line of best fit equation: \_\_\_\_\_

Average angular velocity for the class: \_\_\_\_\_

Your robot's angular velocity: \_\_\_\_\_

Name: \_\_\_\_\_ Date: \_\_\_\_\_ Class: \_\_\_\_\_

**After making appropriate robot modifications to optimize speed performance:**

Wheel diameter = \_\_\_\_\_ cm    Wheel radius = \_\_\_\_\_ cm

Describe any other changes made to your robot:

**Data for linear velocity assessment:**

Trials	Times [s]			
	50 [cm]	100 [cm]	150 [cm]	200 [cm]
1				
2				
3				
4				
5				

**Linear Velocity Graph 2:**

