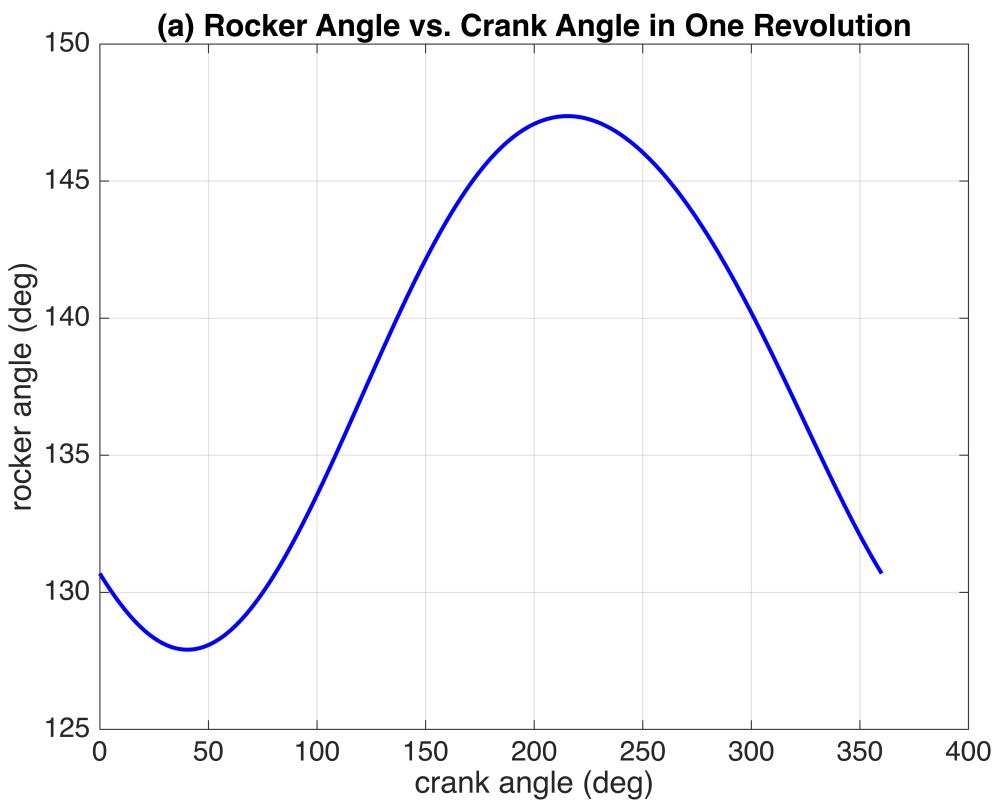
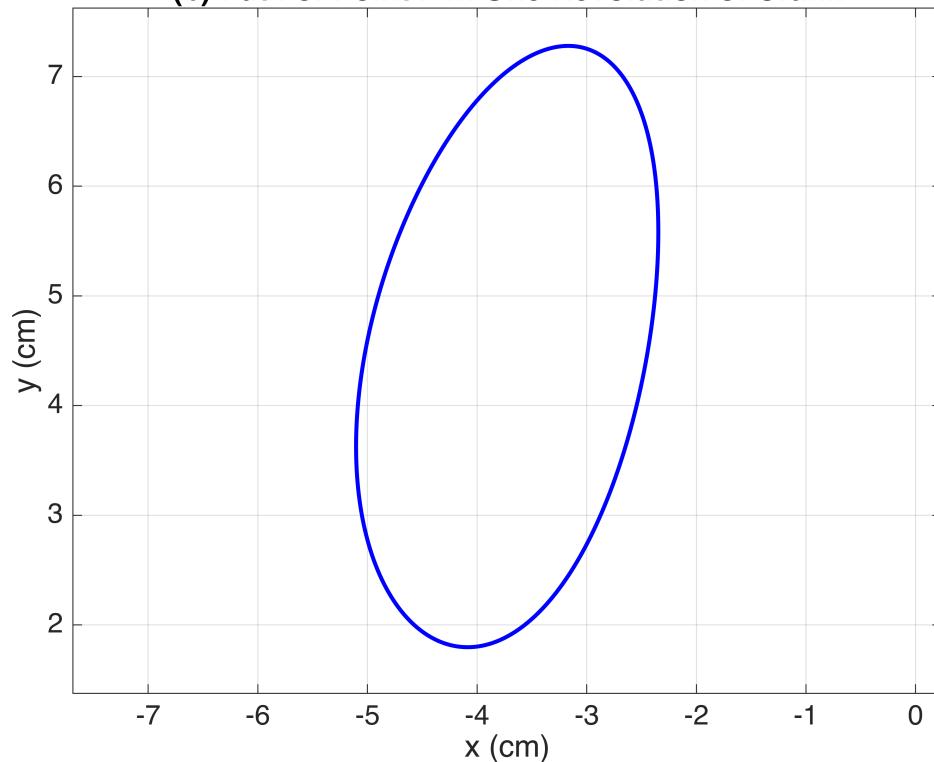


Homework 7

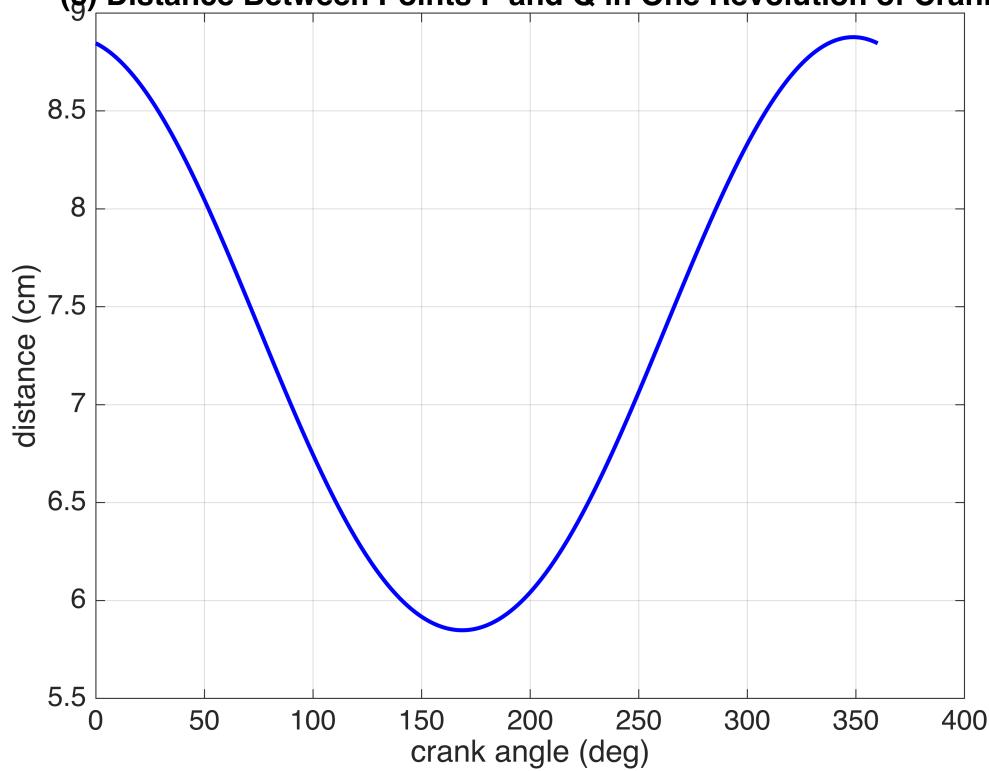
Problem 1

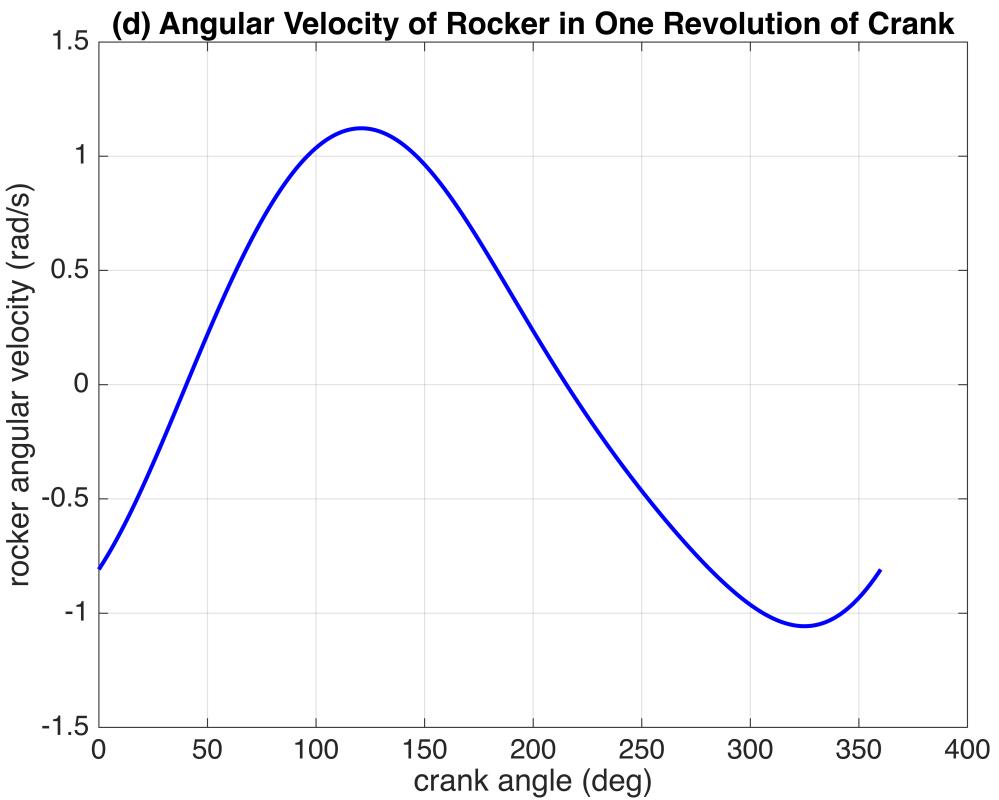


(b) Path of Point P in One Revolution of Crank



(c) Distance Between Points P and Q in One Revolution of Crank



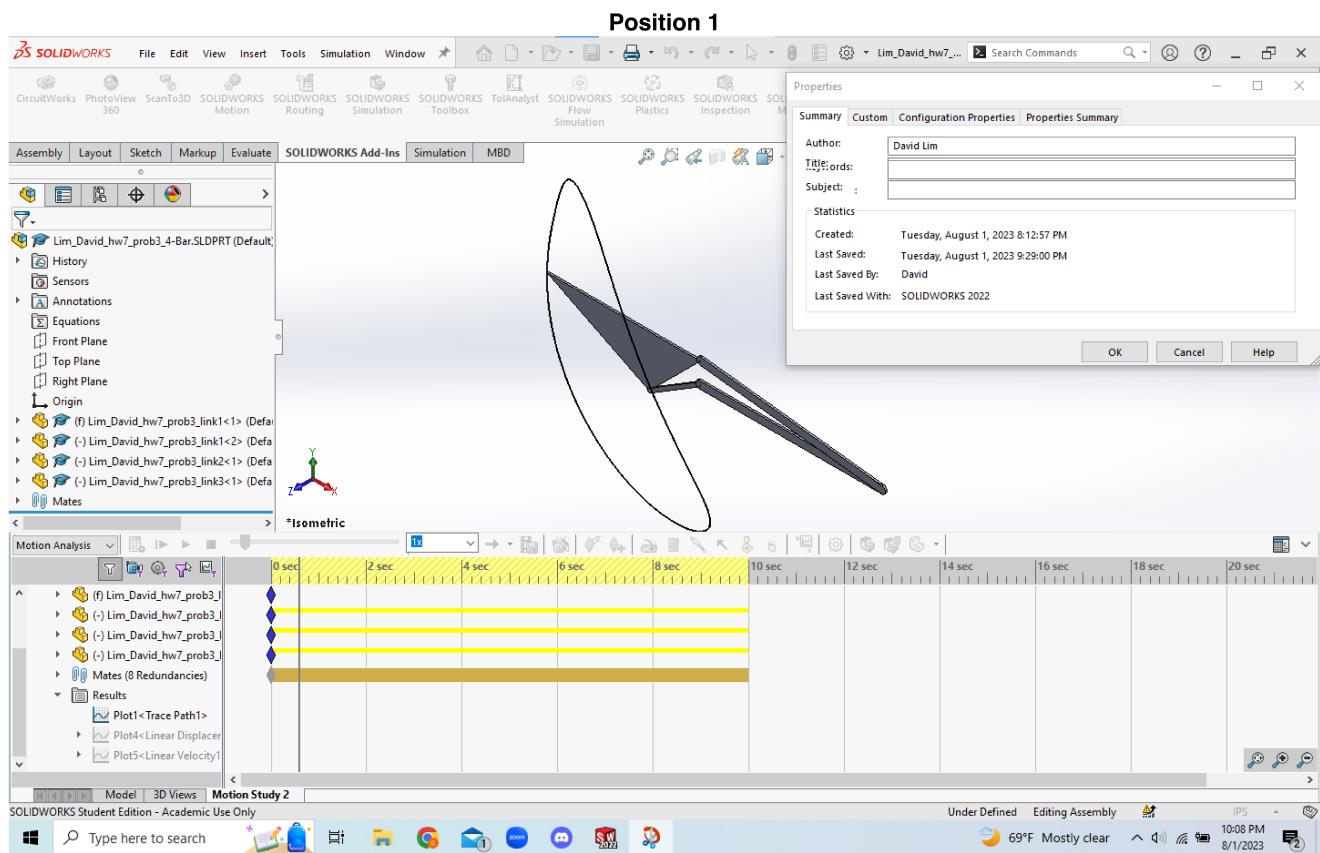


(c): The maximum separation is about 8.88 cm and occurs at a crank angle of about 349 degrees.

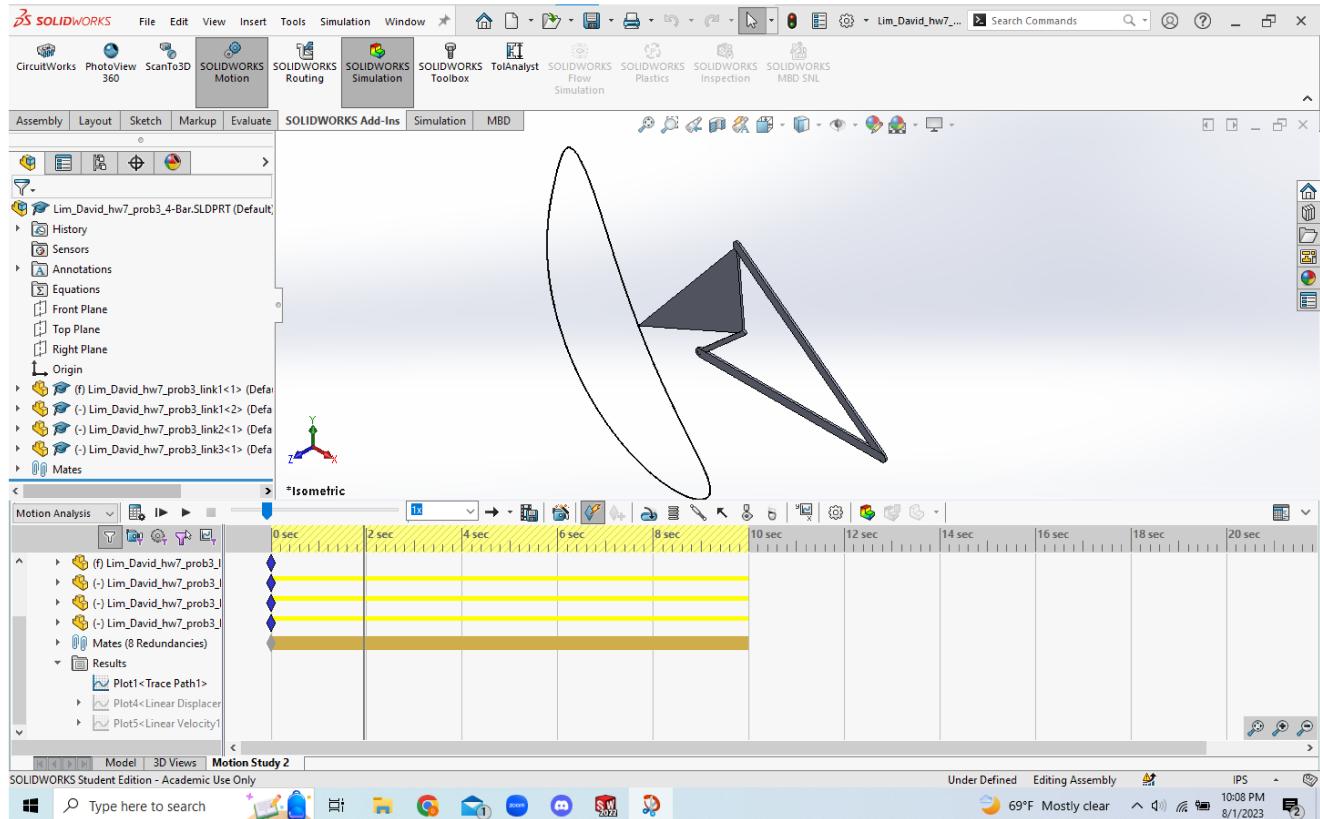
(d): The average angular velocity during one crank revolution is zero since the rocker returns to its initial position.

Problem 3

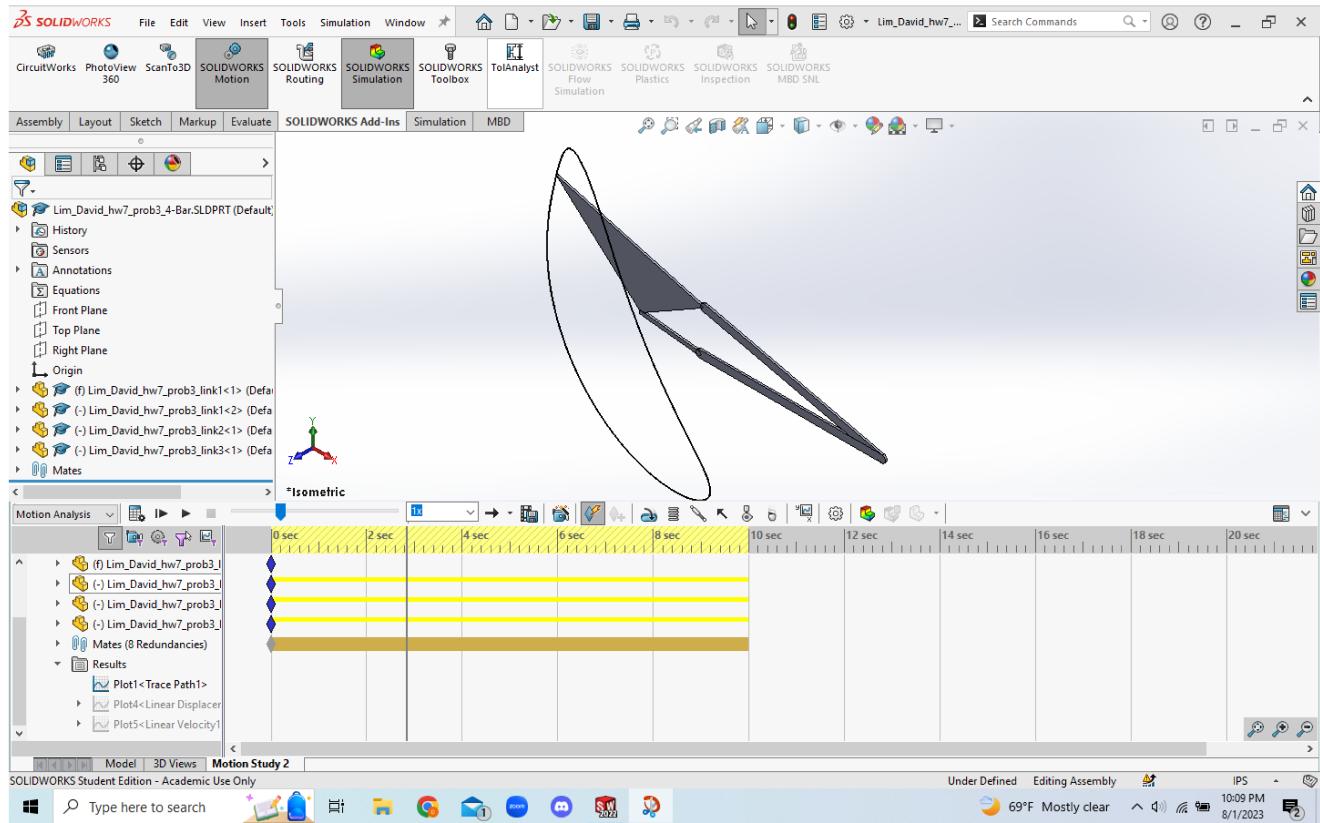
Part A



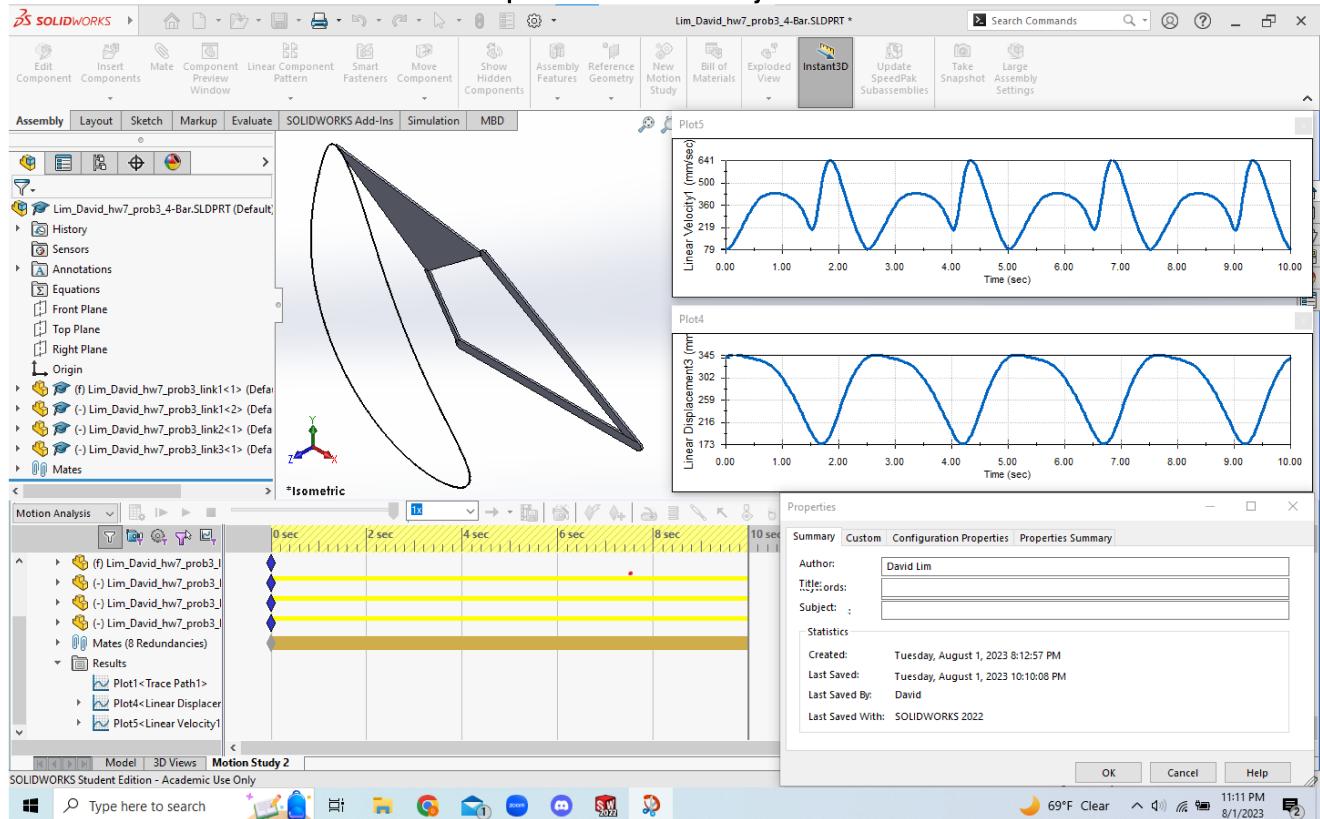
Position 2



Position 3

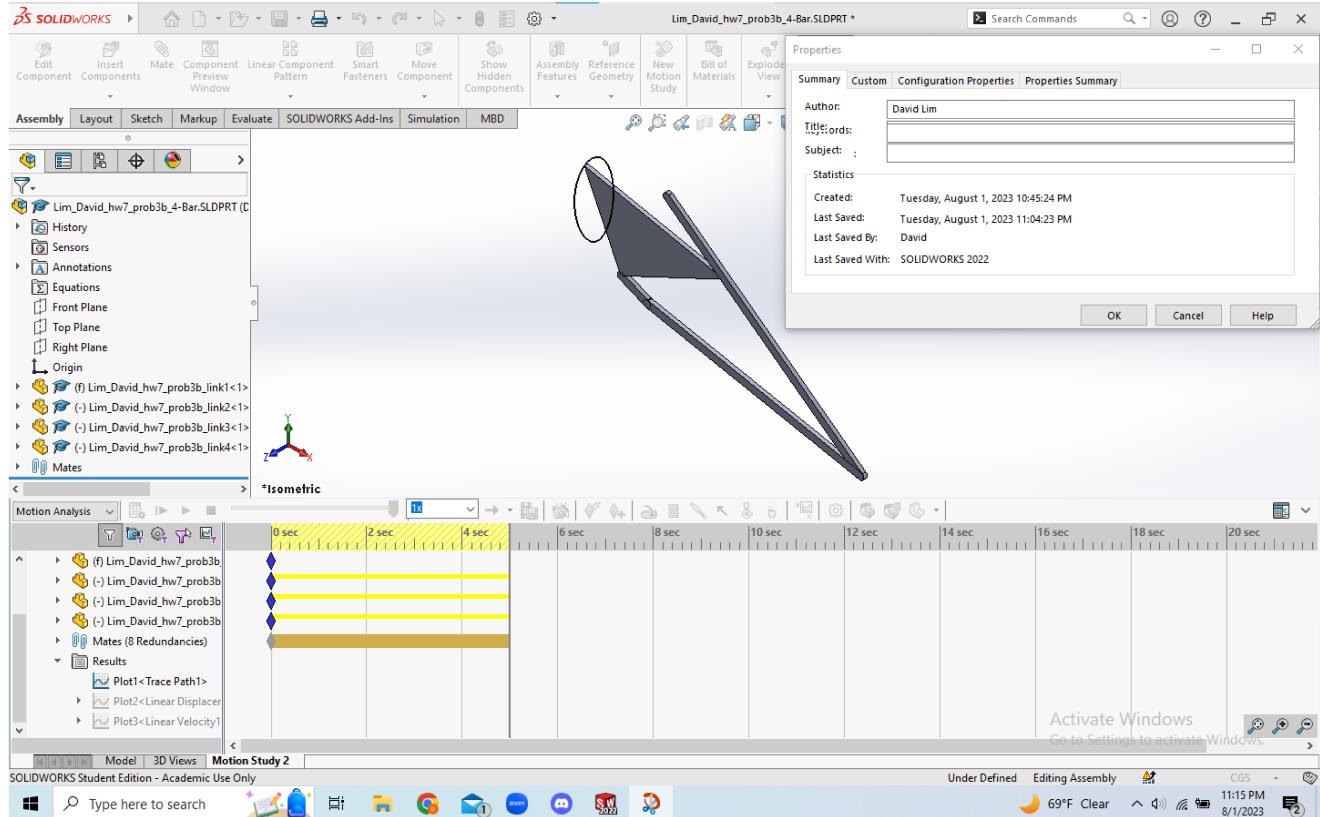


Displacement and Velocity of Point

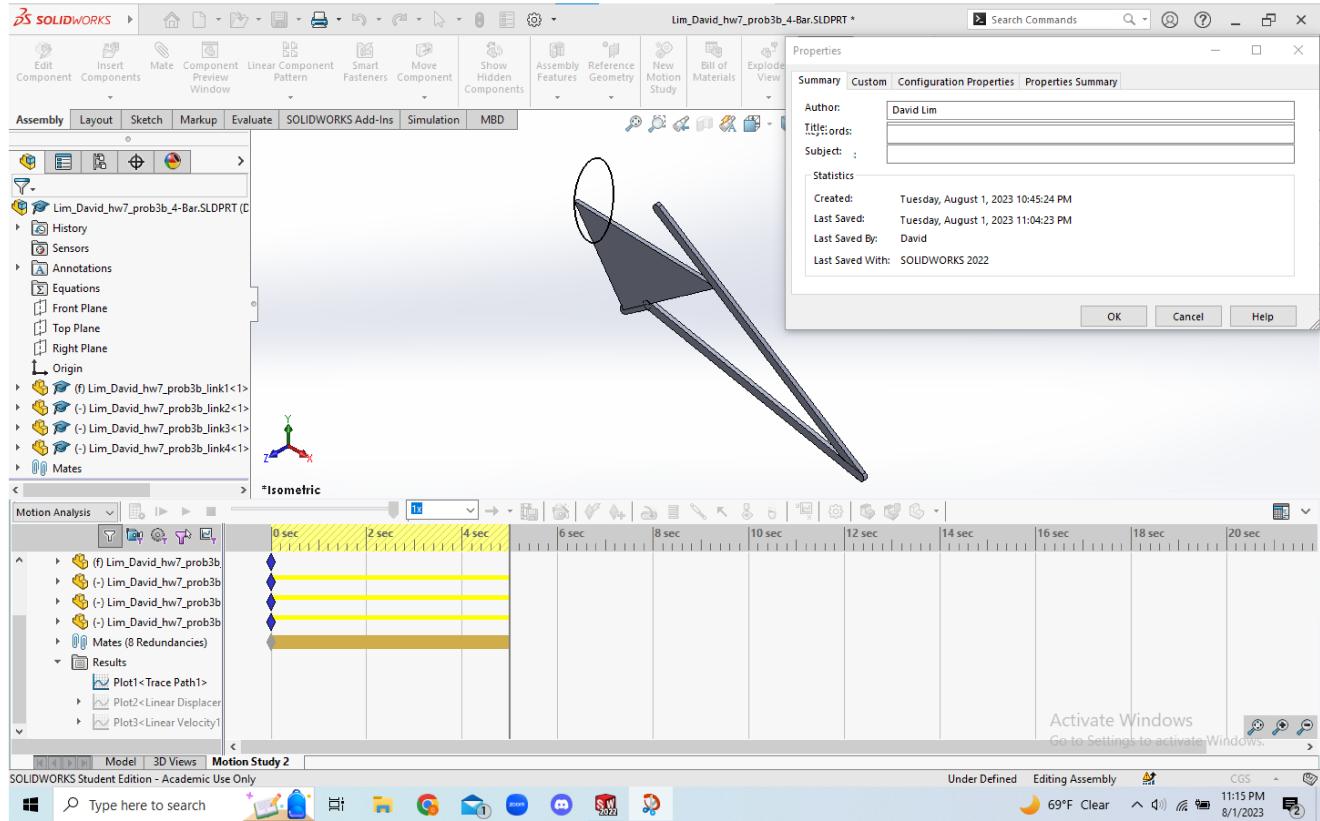


Part B

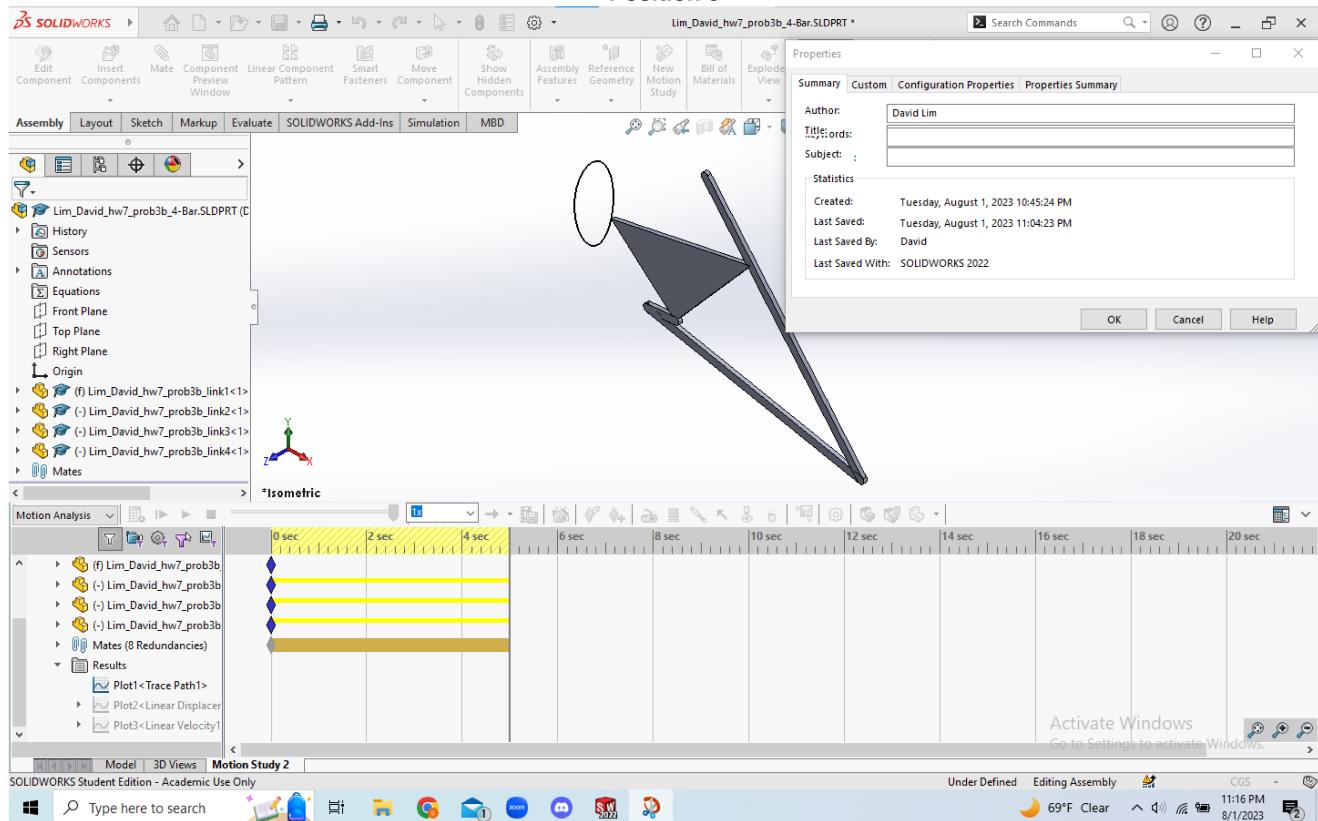
Position 1



Position 2



Position 3



Displacement and Velocity of Point P

