



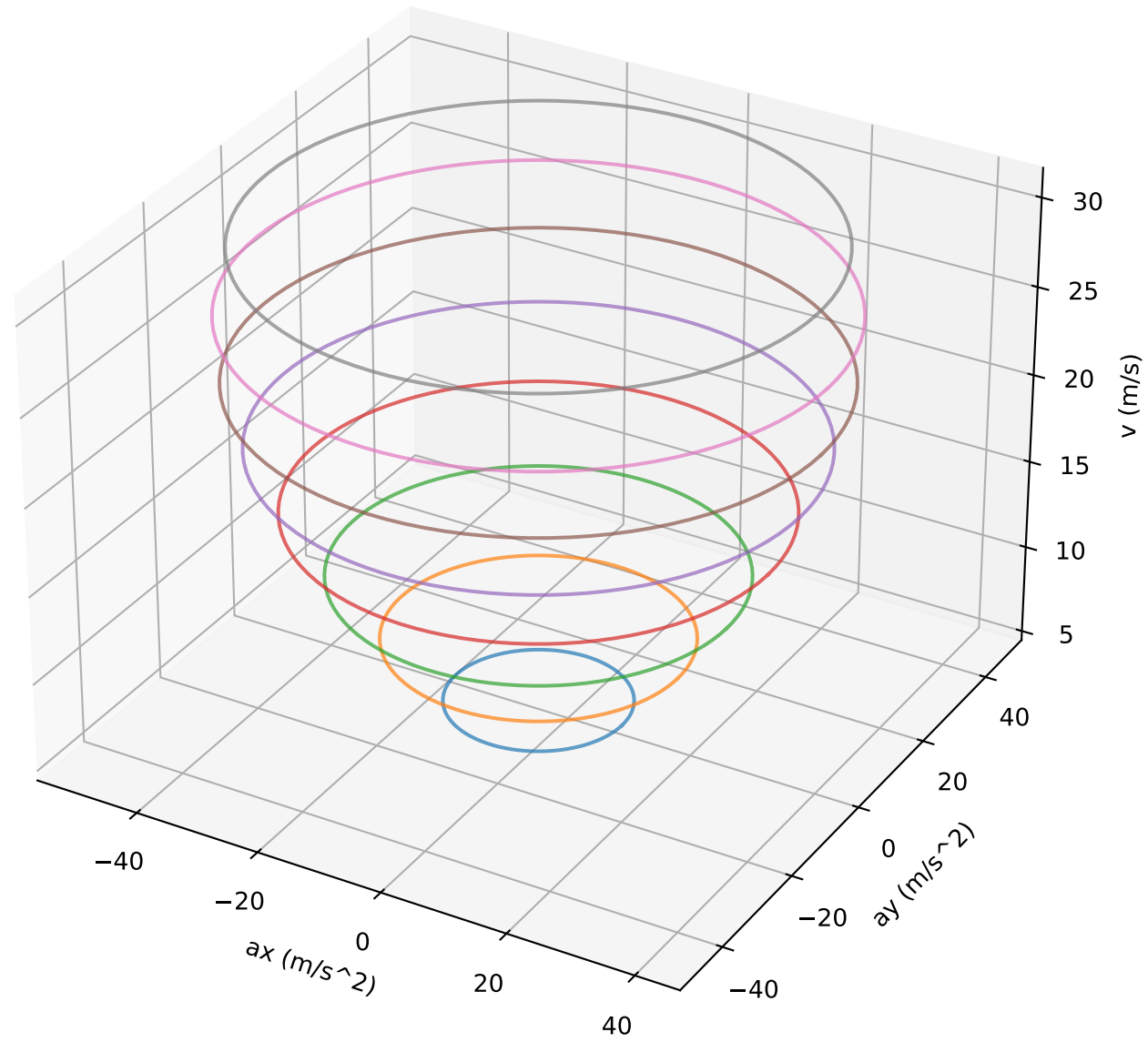
# Component Evaluation (GGV) Report

Simulation Author: Arjun Rao

Generated By: Unknown (Unknown)

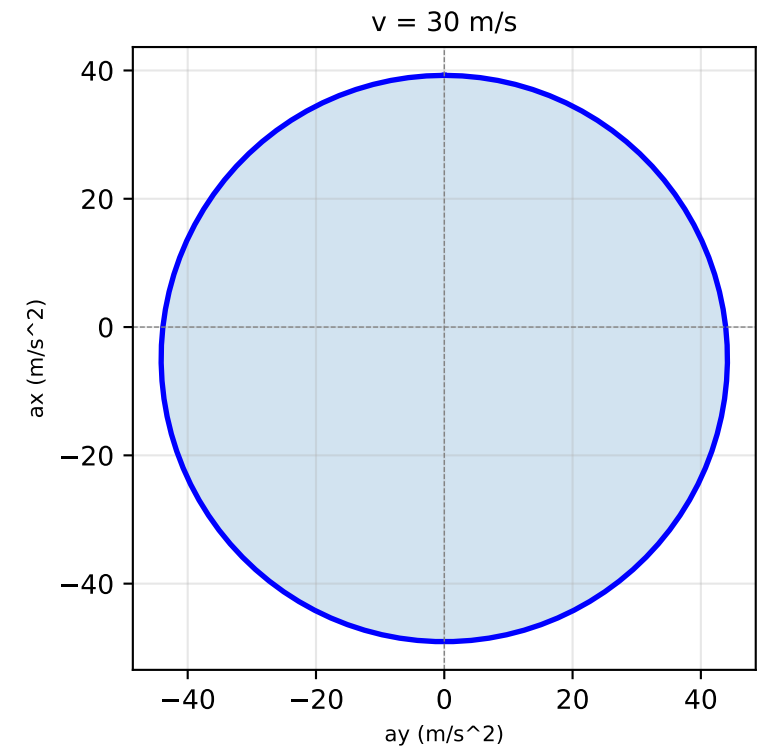
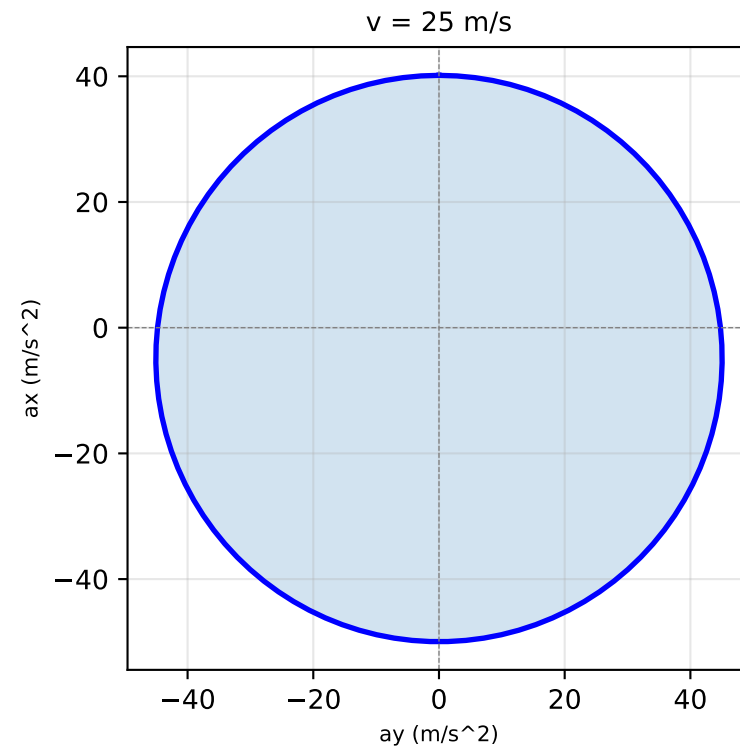
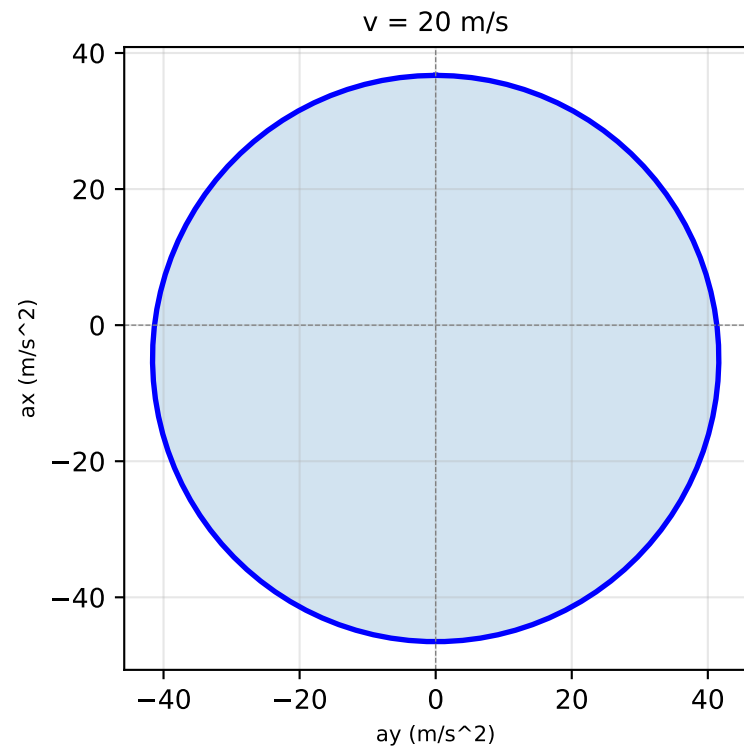
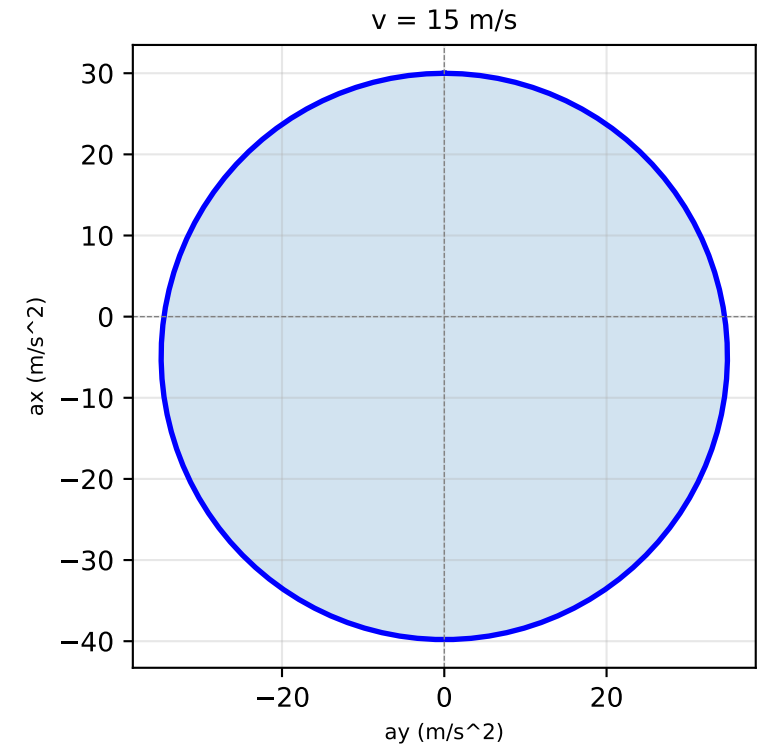
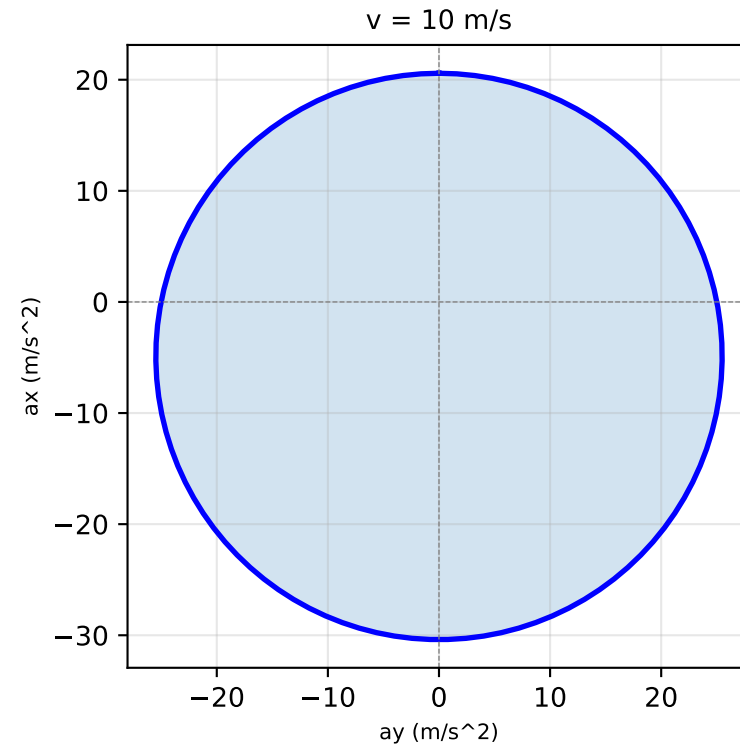
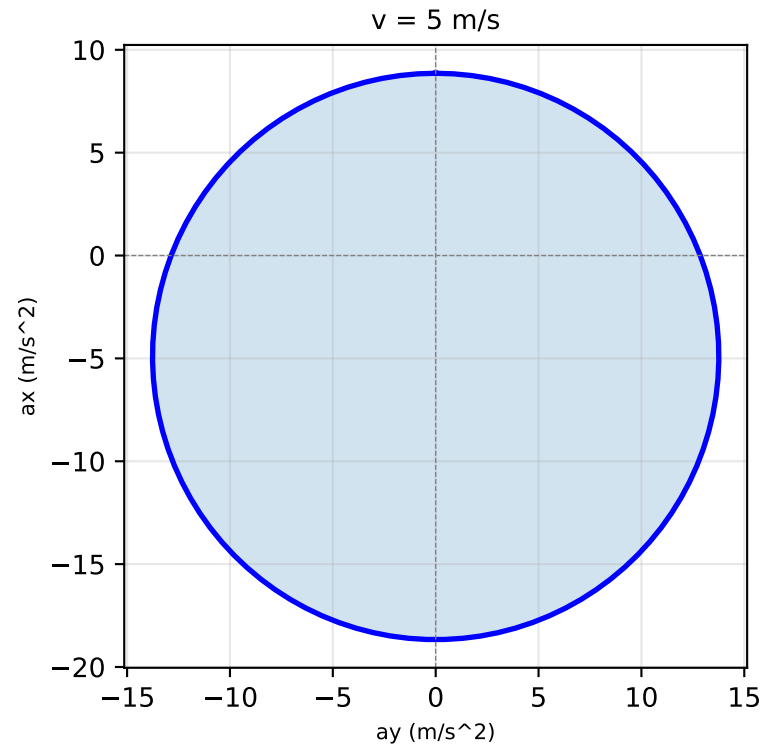
Date: 2025-10-26, 09:43 PM UTC

# GGV Surface



$$\text{GGV: } (ax_g + 0.5)^2 + (ay_g)^2 = 9 \cdot (0.01 \cdot v^2 - v^3 / 4000) \mid \text{accel} = G \cdot 9.81$$

# G-G Envelopes

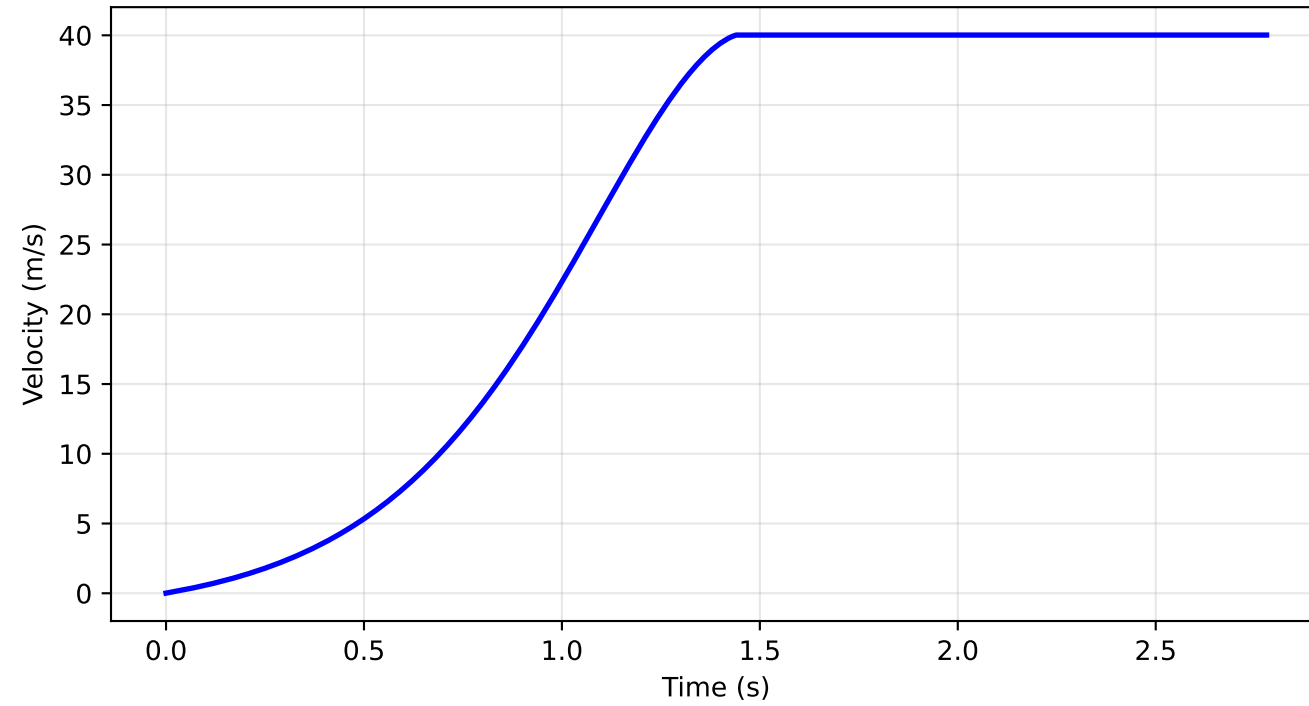


# Performance Summary

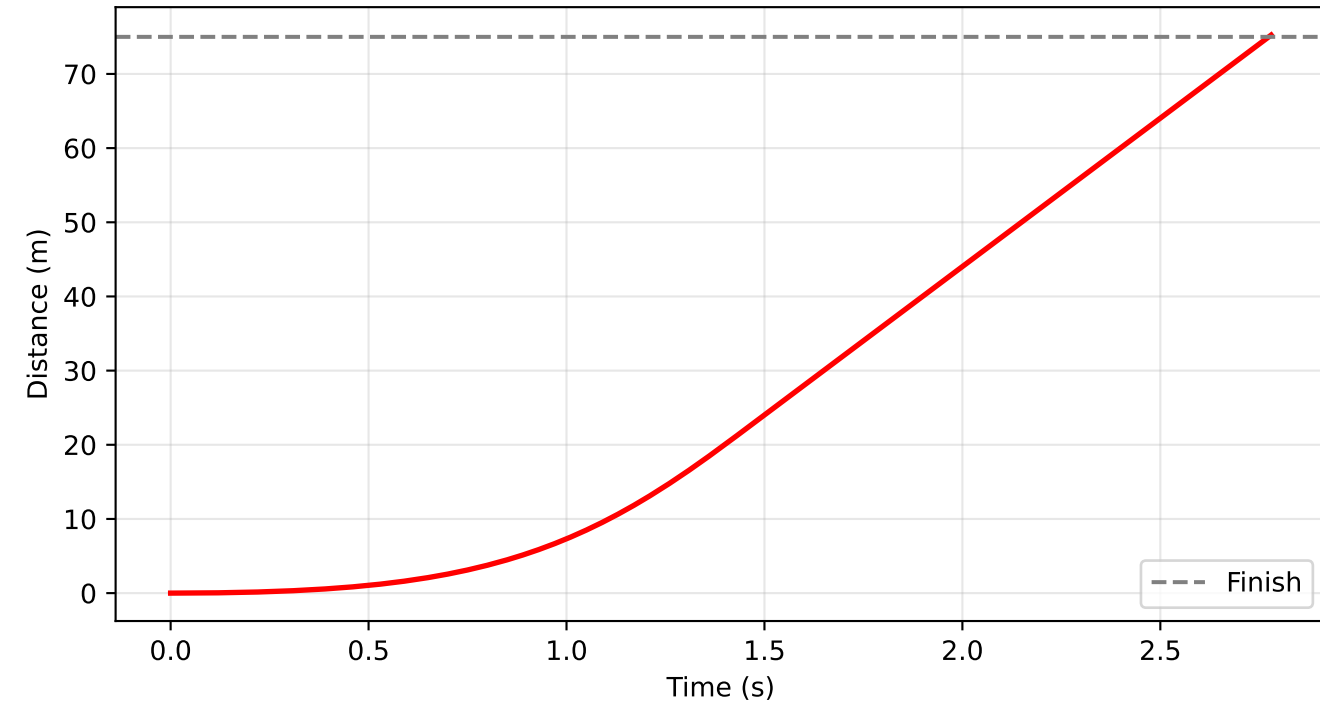
Event	Metric	Value
Acceleration (75m)	Time	2.780 s
	Max Velocity	40.02 m/s
Skidpad	Time	6.250 s
	Optimal Velocity	21.31 m/s
	Lateral G	4.37 G

# Acceleration Event - 2.780s

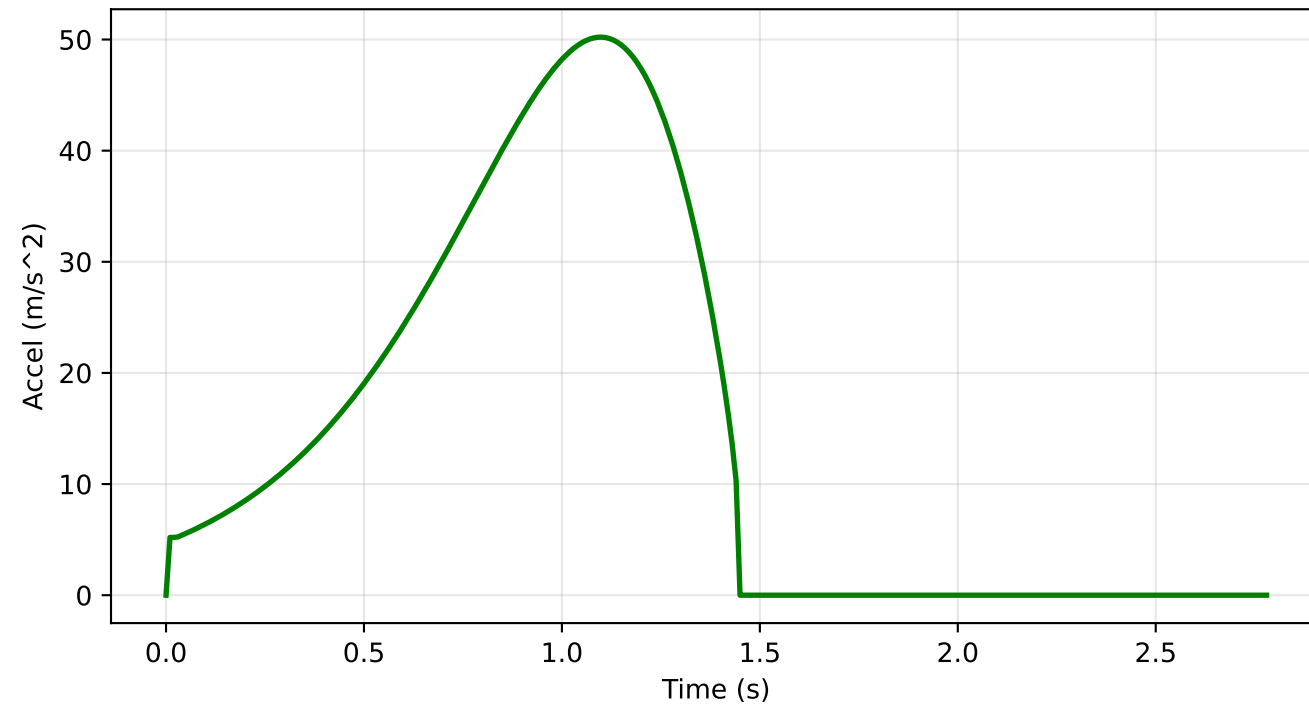
## Velocity vs Time



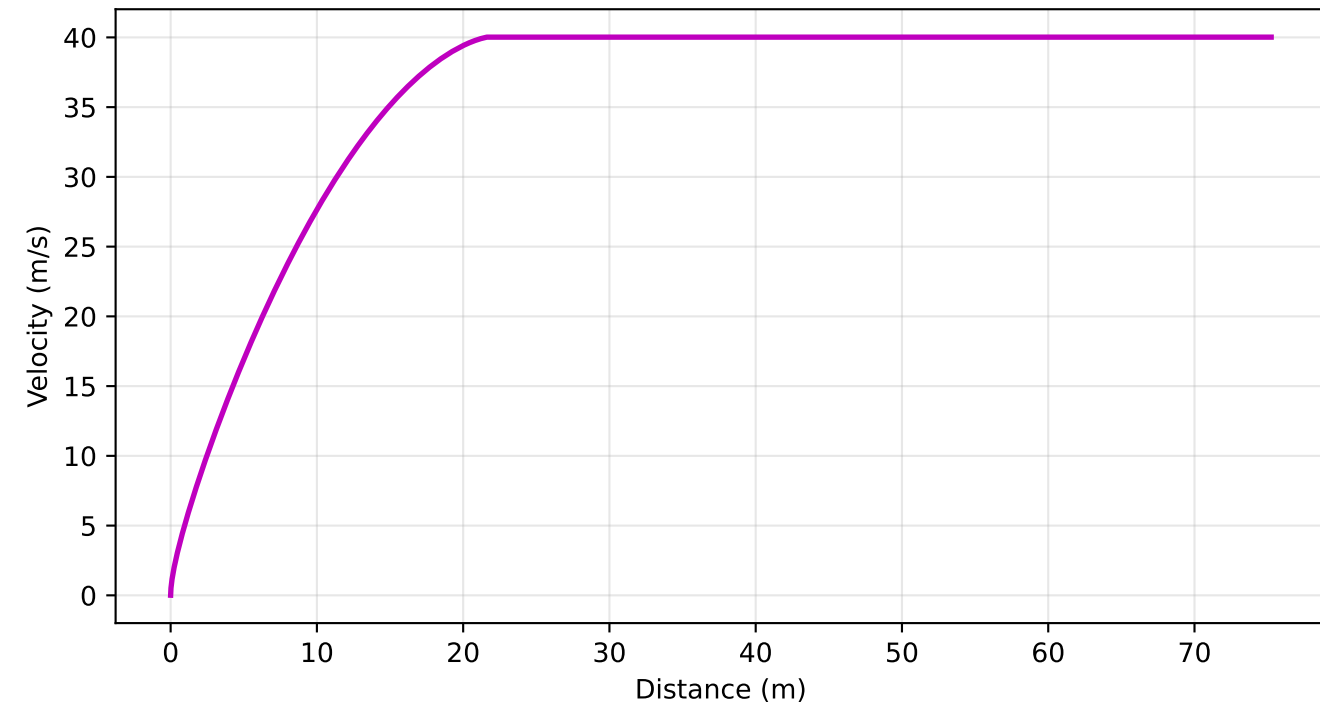
## Distance vs Time



## Acceleration vs Time

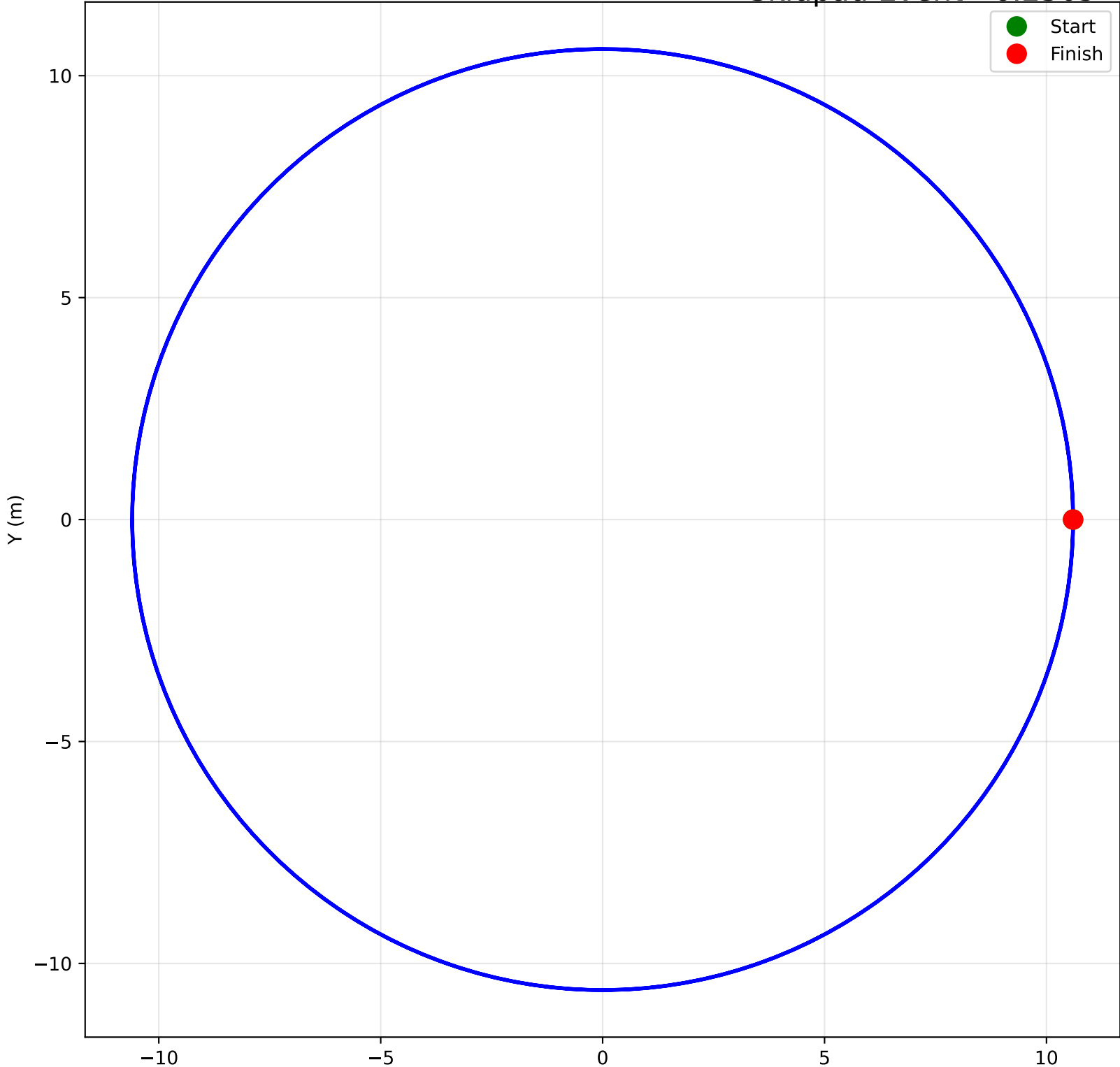


## Velocity vs Distance



Skidpad Trajectory

Skidpad Event - 6.250s



Metric	Value
Time	6.250 s
Velocity	21.31 m/s
Lateral Accel	42.86 m/s^2
Lateral G	4.37 G
Radius	10.60 m