



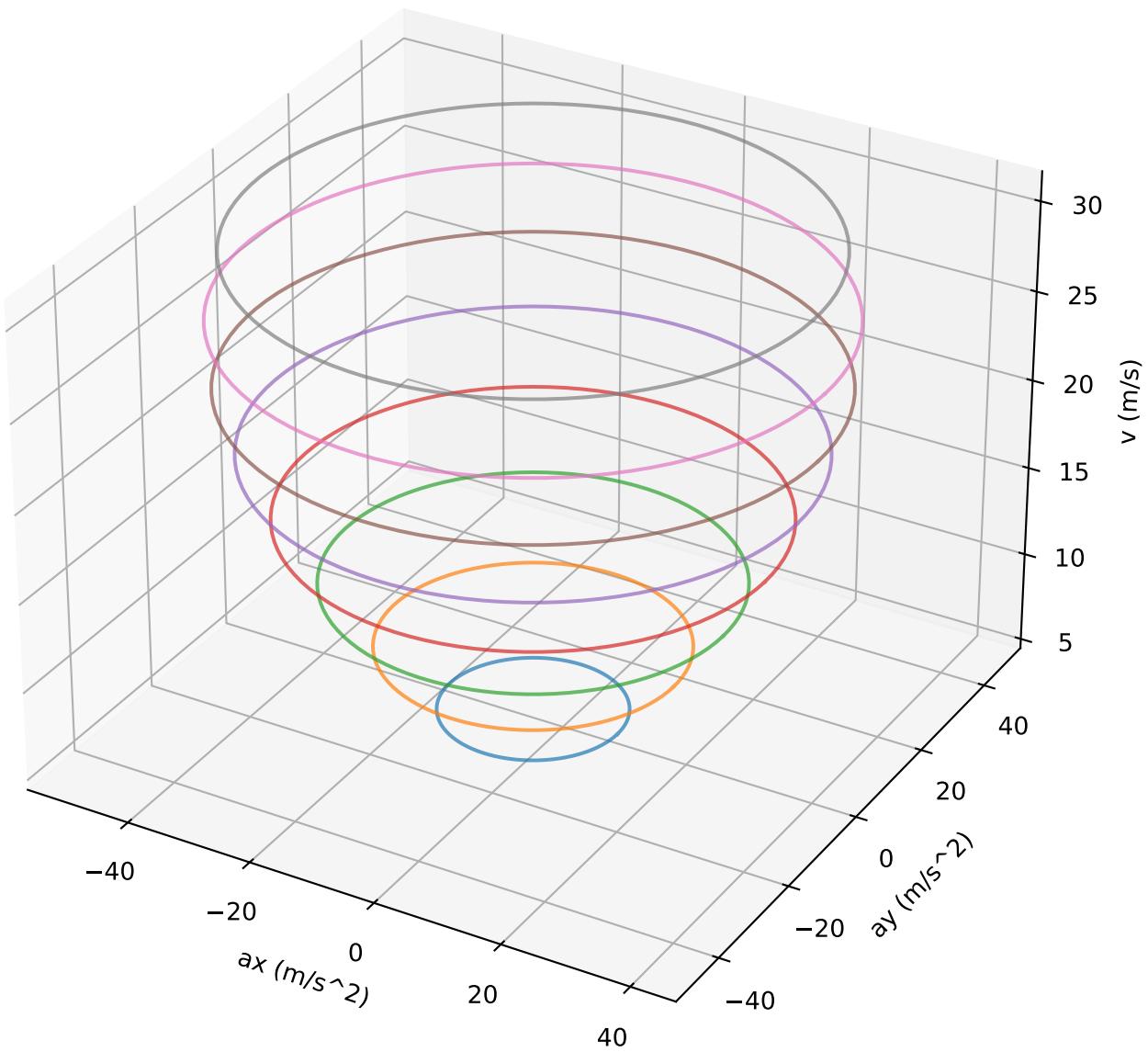
Component Evaluation (GGV) Report

Simulation Author: Arjun Rao

Generated By: Unknown (Unknown)

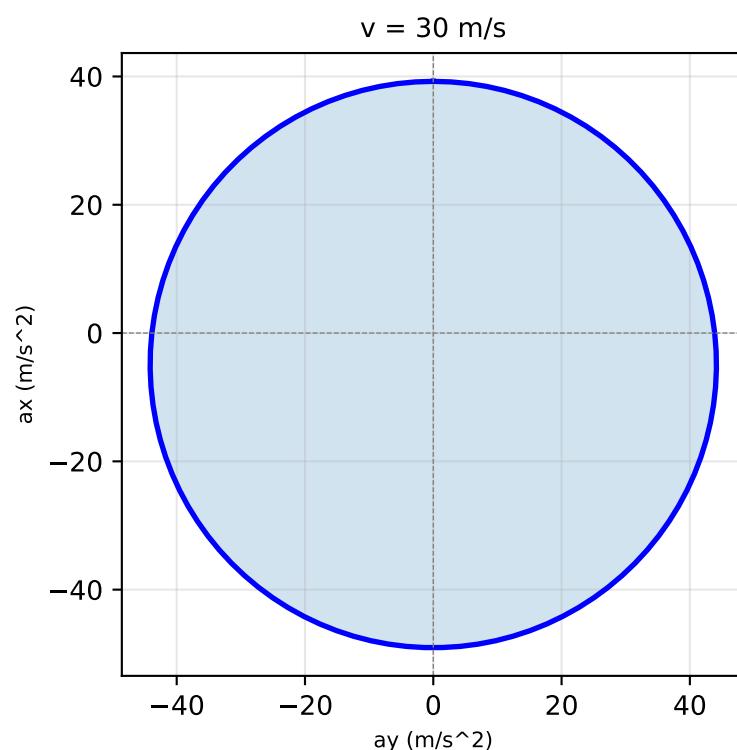
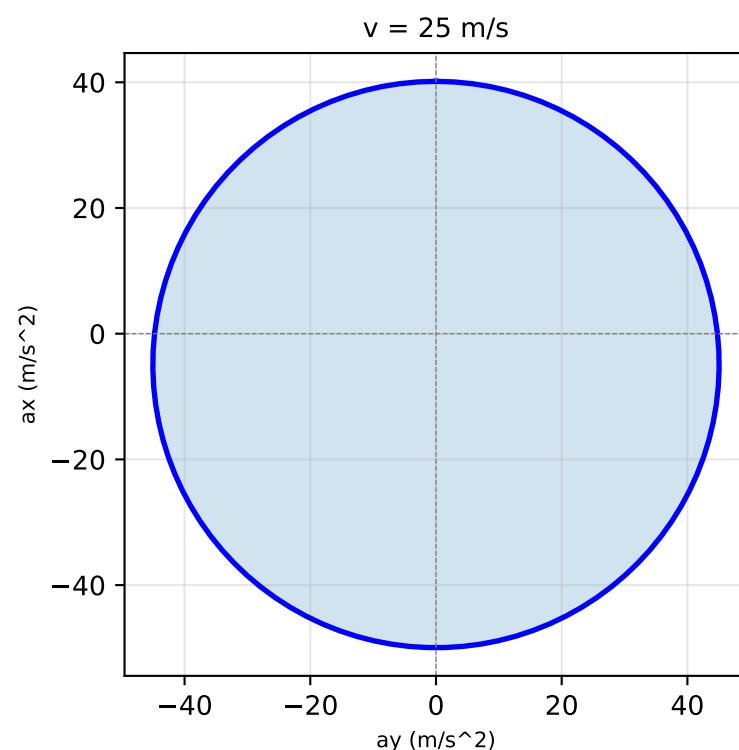
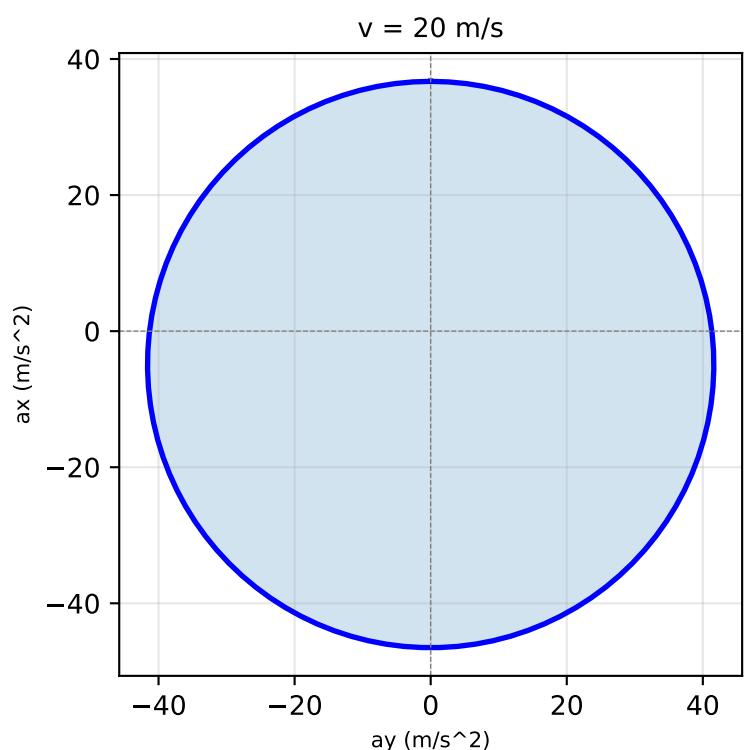
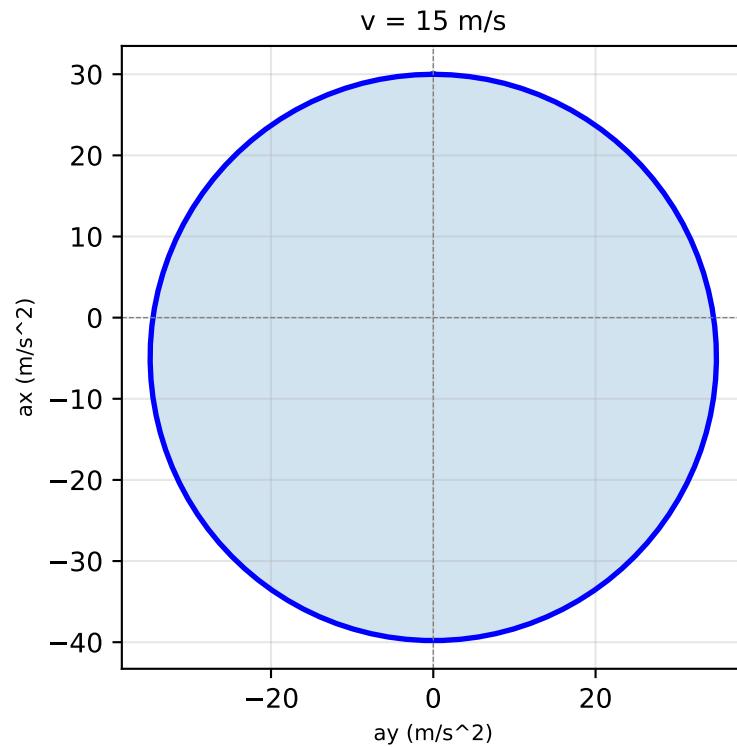
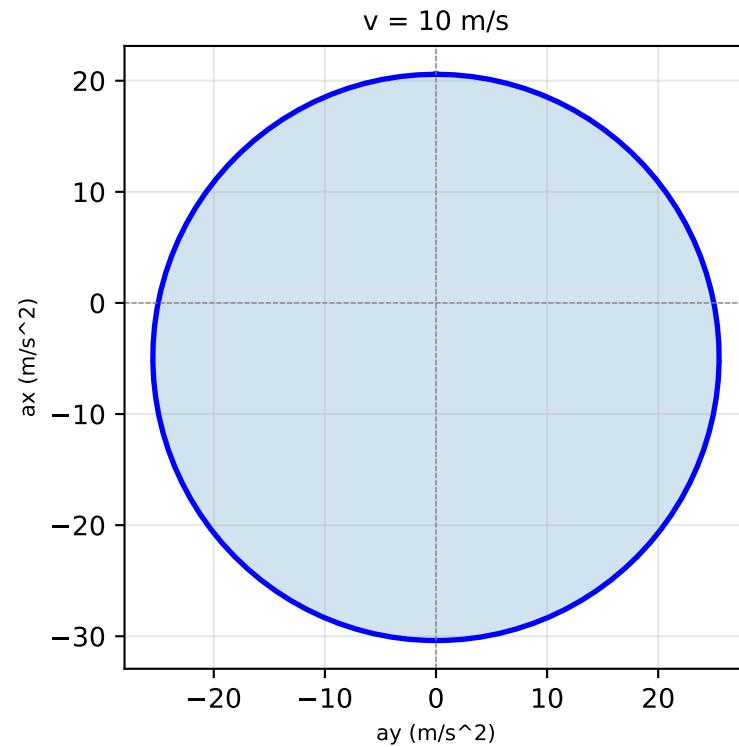
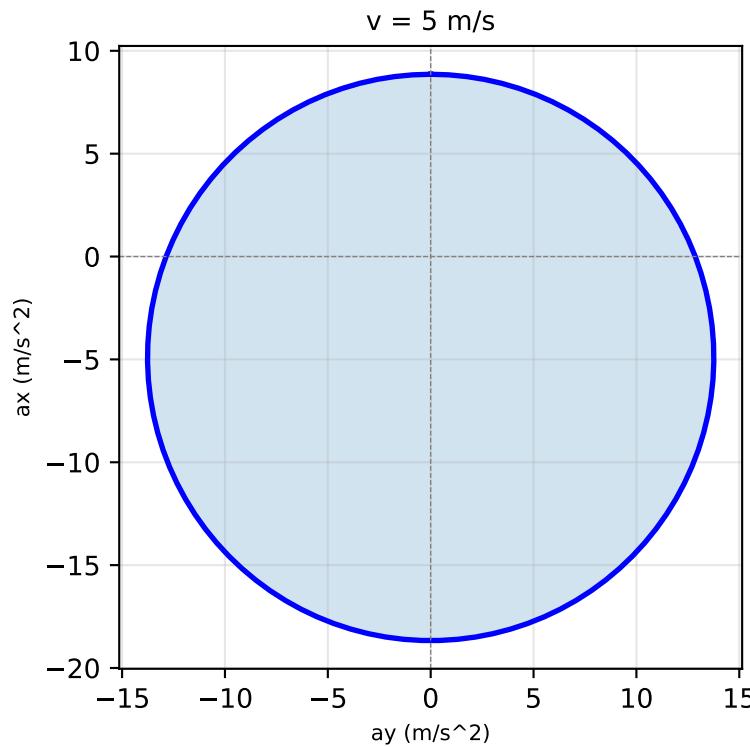
Date: 2025-10-26, 09:43 PM UTC

GGV Surface



$$\text{GGV: } (a_x g + 0.5)^2 + (a_y g)^2 = 9 * (0.01 * v^2 - v^3 / 4000) \quad | \quad \text{accel} = G * 9.81$$

G-G Envelopes

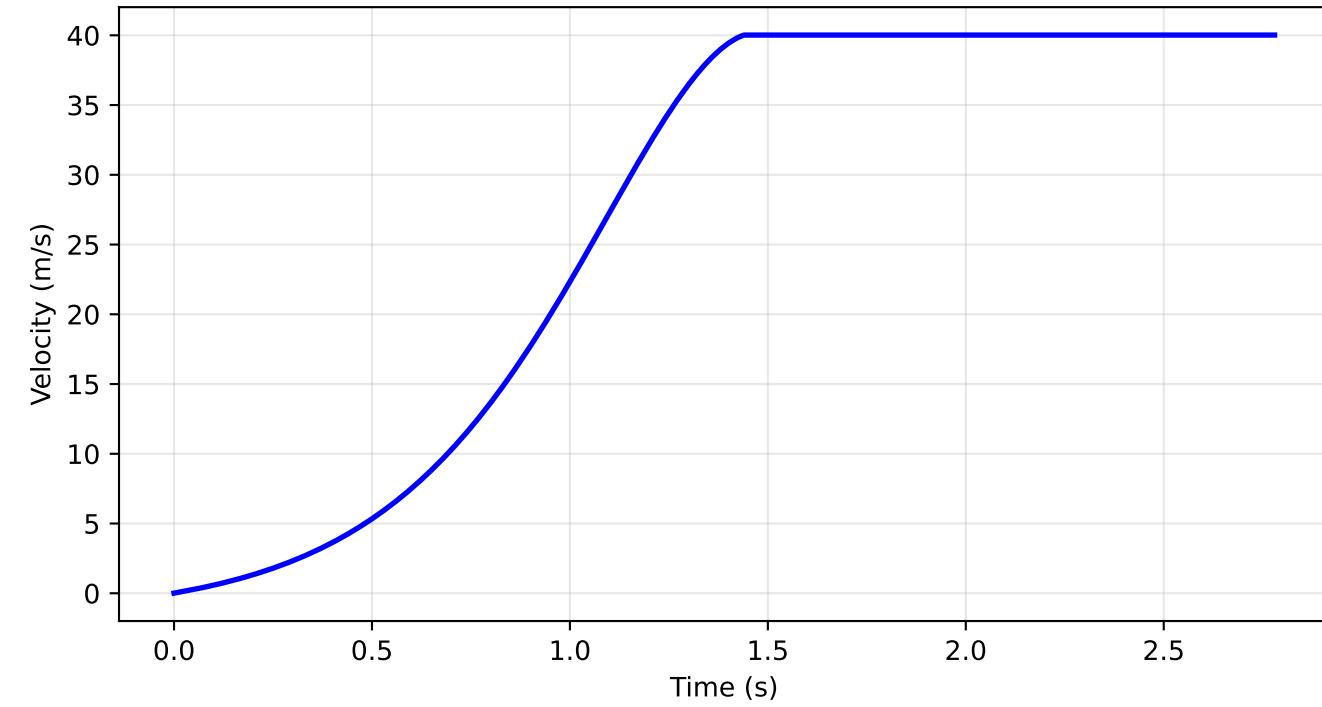


Performance Summary

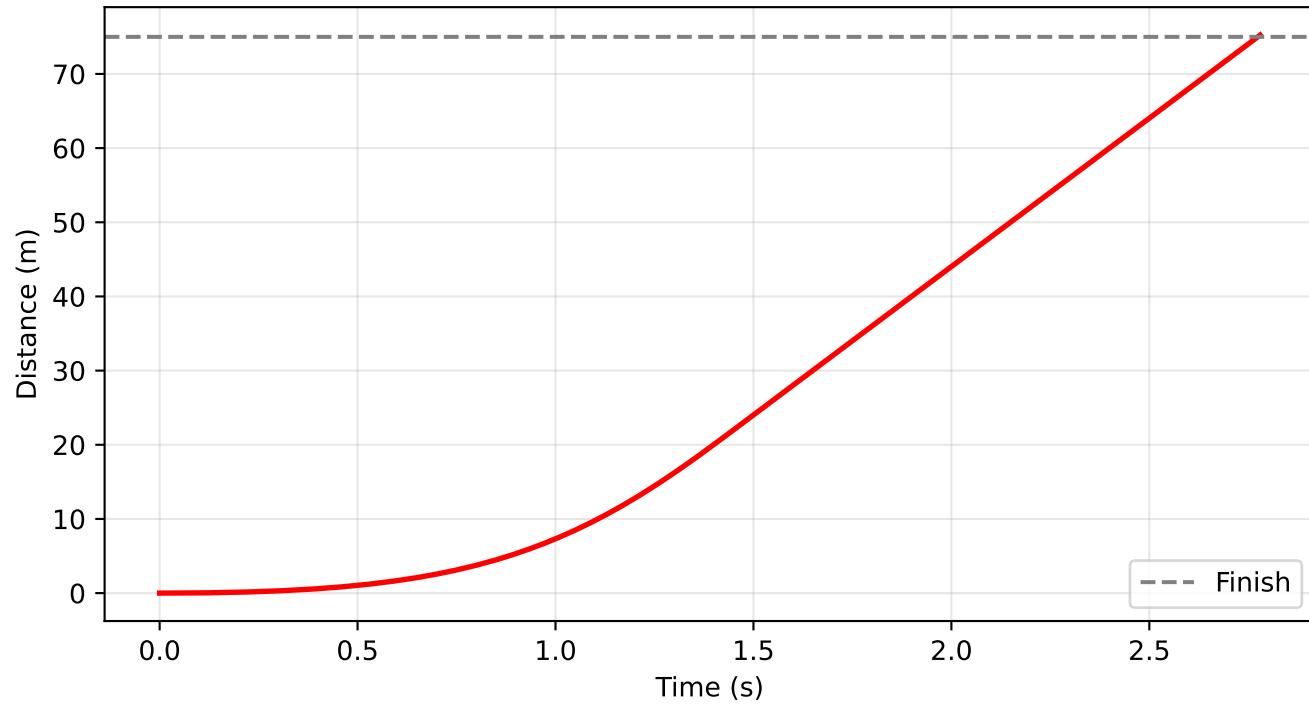
| Event | Metric | Value |
|--------------------|------------------|-----------|
| Acceleration (75m) | Time | 2.780 s |
| | Max Velocity | 40.02 m/s |
| Skidpad | Time | 6.250 s |
| | Optimal Velocity | 21.31 m/s |
| | Lateral G | 4.37 G |

Acceleration Event - 2.780s

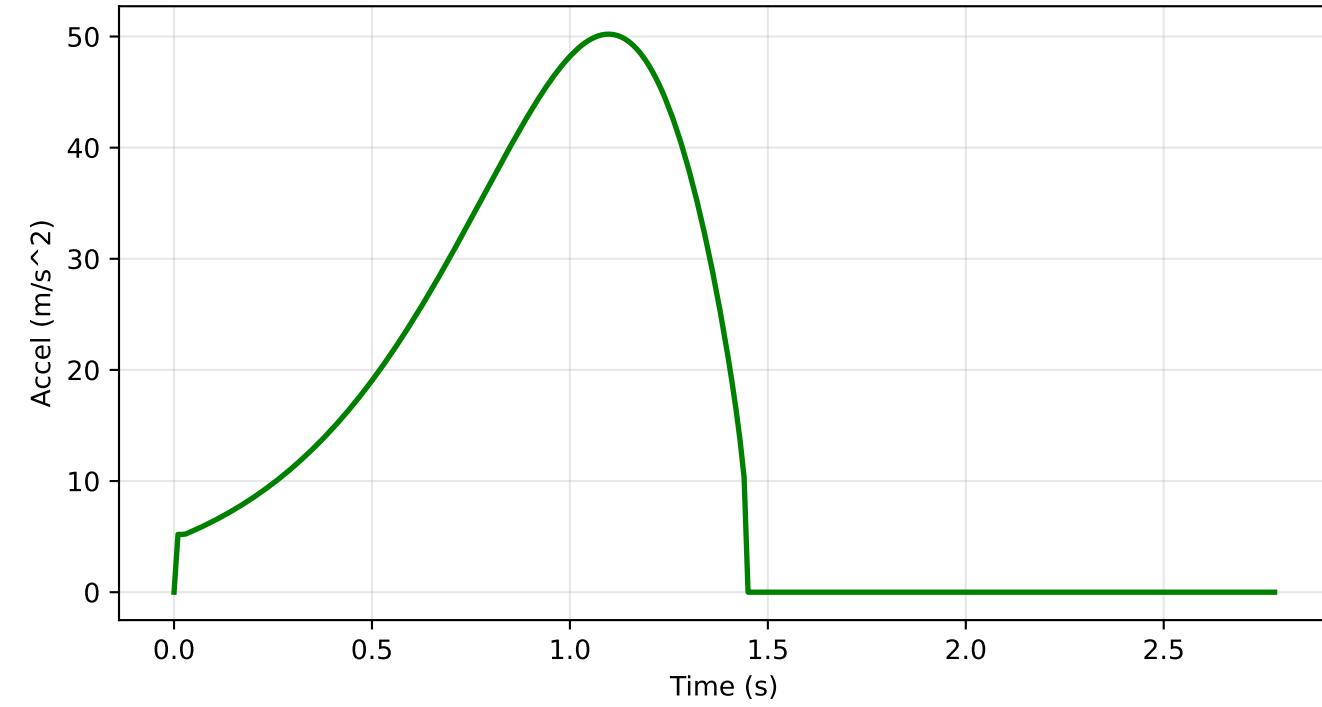
Velocity vs Time



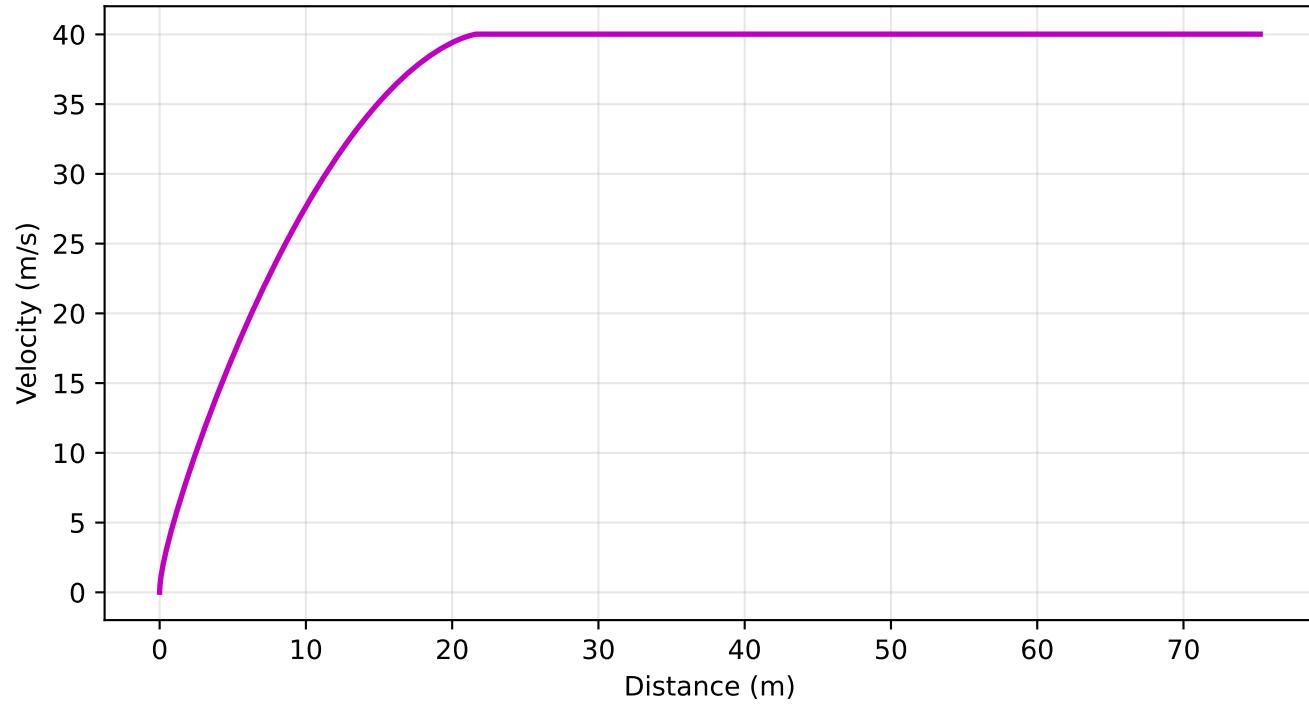
Distance vs Time



Acceleration vs Time



Velocity vs Distance

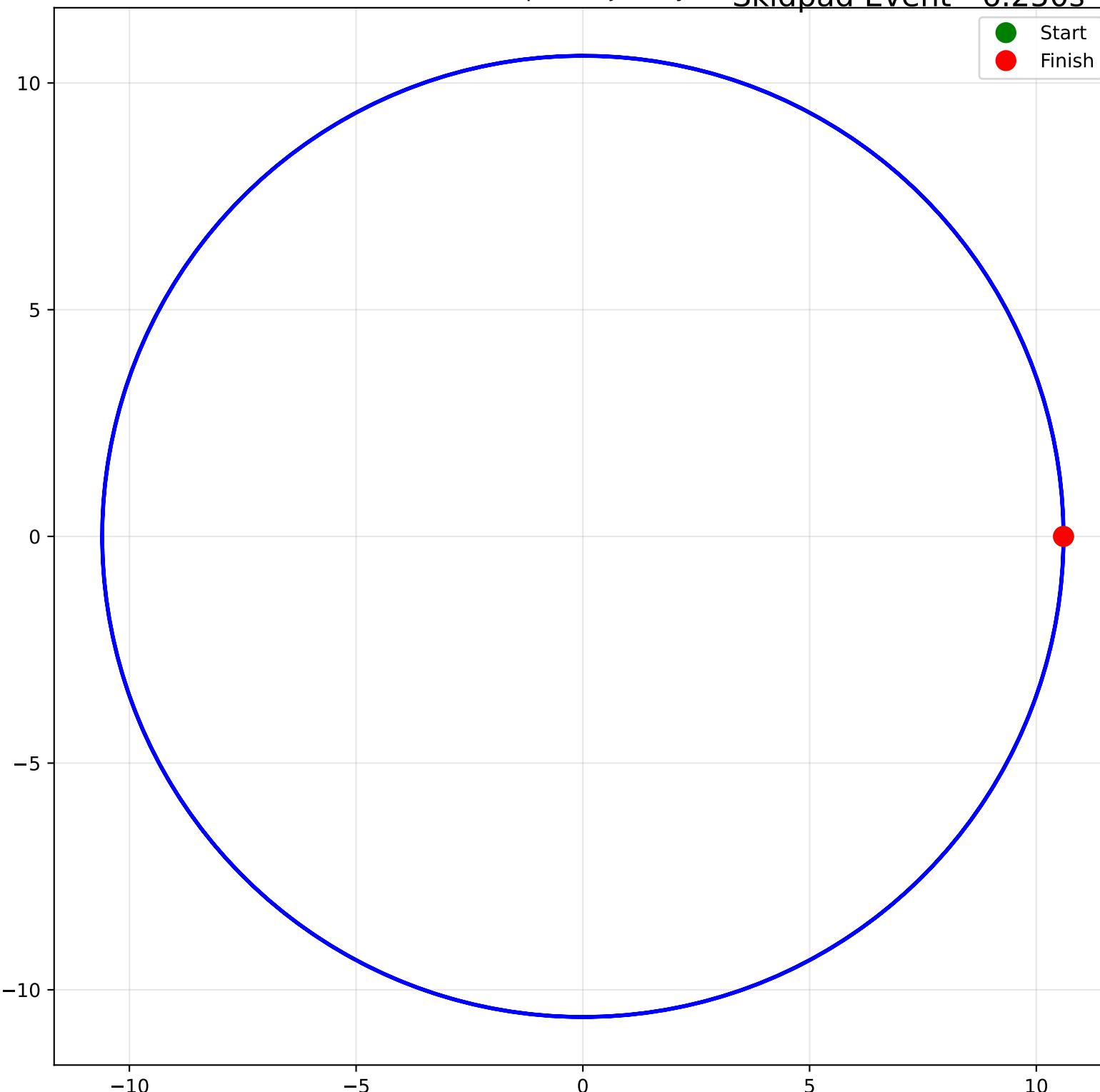


Skidpad Trajectory

Skidpad Event - 6.250s

- Start
- Finish

Y (m)



| 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 |