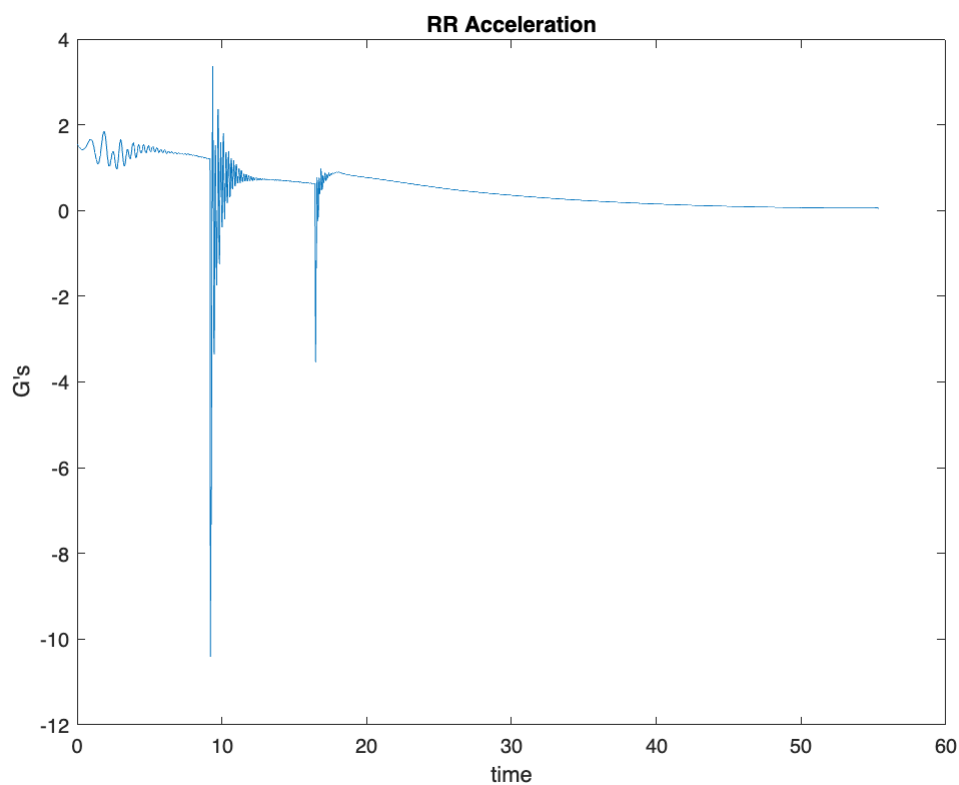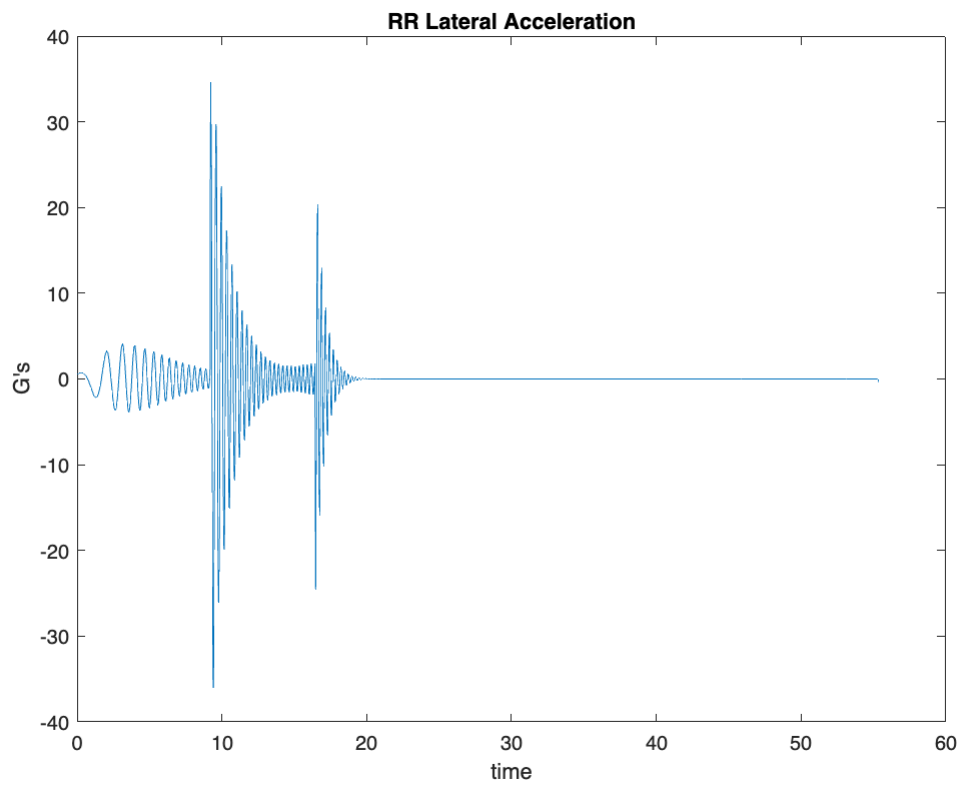```
%simulation time
max(target_sim_out.tout)
```

```
ans = 55.3649
```

```
plot(target_sim_out.yout{4}.Values.Time, ...
    target_sim_out.yout{4}.Values.Data(:,[1])'/G);
title('RR Acceleration');
xlabel('time');
ylabel("G's");
```
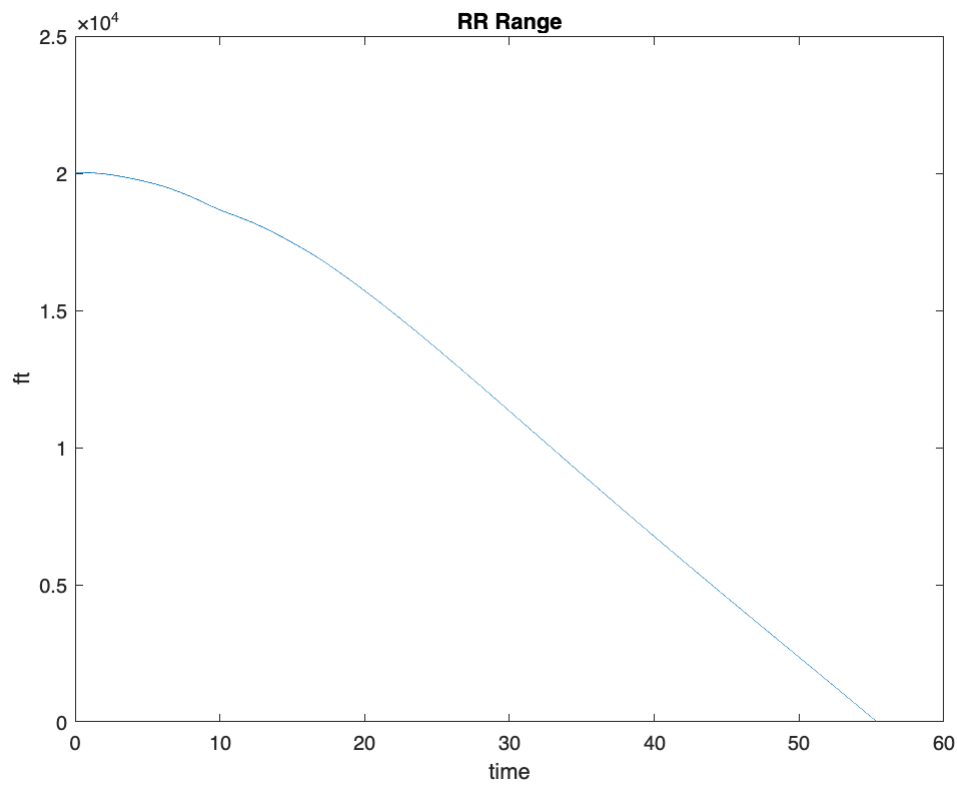


```
plot(target_sim_out.yout{4}.Values.Time, ...
    target_sim_out.yout{4}.Values.Data(:,[3])'/G);
title('RR Lateral Acceleration');
xlabel('time');
ylabel("G's");
```

RR Lateral Acceleration

```matlab
% max range
max(target_sim_out.yout{3}.Values.Data(:,[1]))
```
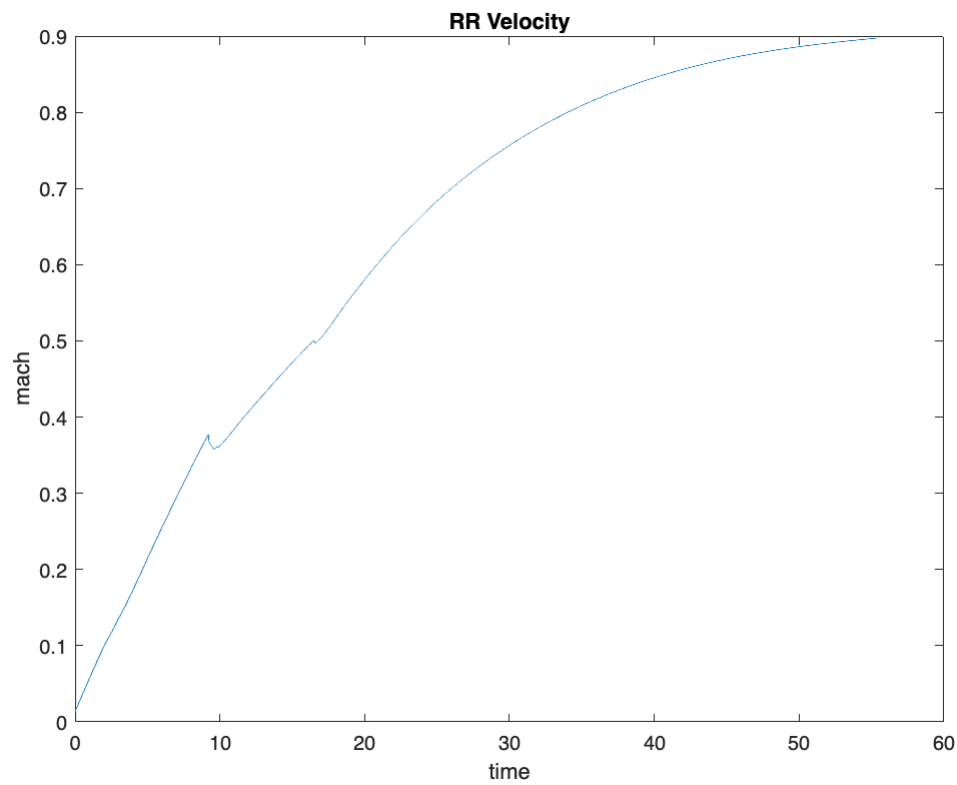
ans = 2.0026e+04

```matlab
plot(target_sim_out.yout{3}.Values.Time, ...
    target_sim_out.yout{3}.Values.Data(:,[1])');
title('RR Range');
xlabel('time');
ylabel("ft");
```

```
% max velocity
max(target_sim_out.yout{5}.Values.Data(:,[1]))
```

ans = 0.8973

```
plot(target_sim_out.yout{5}.Values.Time, ...
    target_sim_out.yout{5}.Values.Data(:,[1])');
title('RR Velocity');
xlabel('time');
ylabel("mach");
```

RR Velocity

```
plot(target_sim_out.yout{1}.Values.Time, ...
    target_sim_out.yout{1}.Values.Data(:,[1])', ...
    target_sim_out.yout{2}.Values.Time, ...
    target_sim_out.yout{2}.Values.Data(:,[1])');
title('Vehicle Distance Down Range');
xlabel('time');
ylabel("ft");
legend({'Target','RR'},'Location','northwest');
```

Vehicle Distance Down Range
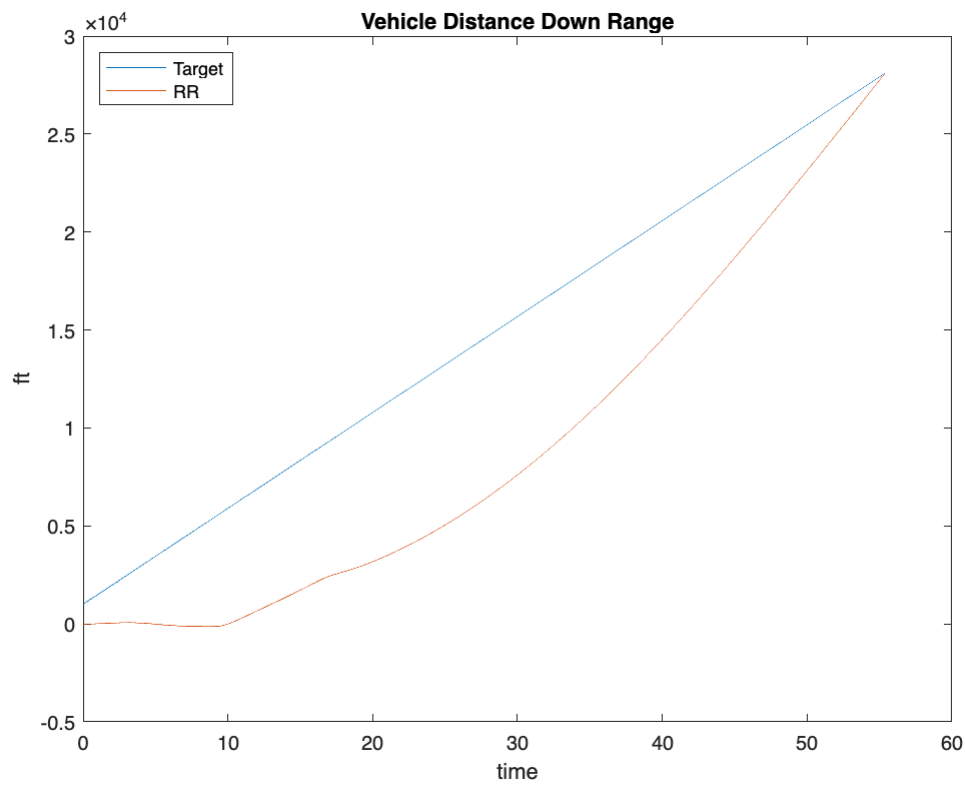
```
plot(target_sim_out.yout{1}.Values.Time, ...
    target_sim_out.yout{1}.Values.Data(:,[3])'*-1, ...
    target_sim_out.yout{2}.Values.Time, ...
    target_sim_out.yout{2}.Values.Data(:,[3])'*-1);
title('Vehicle Altitude');
xlabel('time');
ylabel("ft");
legend({'Target','RR'},'Location','northwest');
```

Vehicle Altitude