# Question #6

## Filter Comparison – LKF vs EKF

For this particular series of measurements and initial conditions the filters had no significant difference performance. Figure 1 below captures the state estimate of each filter versus the truth measurement data. Figure 2 compares the measurement errors, Figure 3 shows the LKF measurement errors with 2σ bounds, Figure 4 shows the EKF measurement errors with 2σ bounds and Figure 5 shows the NIS test results.







