A picture containing fireworks, dark, water, flying

Description automatically generated

College of Engineering

School of Aeronautics and Astronautics

AAE 36401 Lab

Control Systems Lab

Lab 2 Pre-Lab

The Cart on a Track with Pendulum

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Using Matlab and Simulink, the best gain were the following values

|  |  |
| --- | --- |
| K | Gains |
|  | 38.9466 |
|  | -33.0734 |
|  | 14.9005 |
|  | 2.9887 |

The plot with my gains and the gains K = [0, 0, 0, 0] is the following

