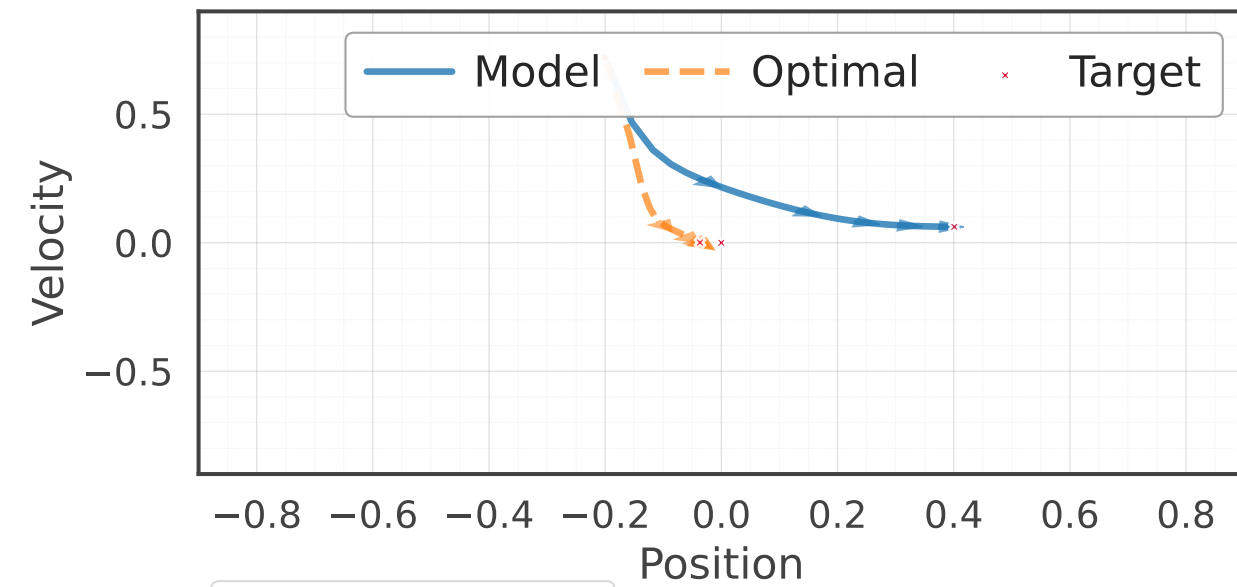**Double Integrator Control Comparison**
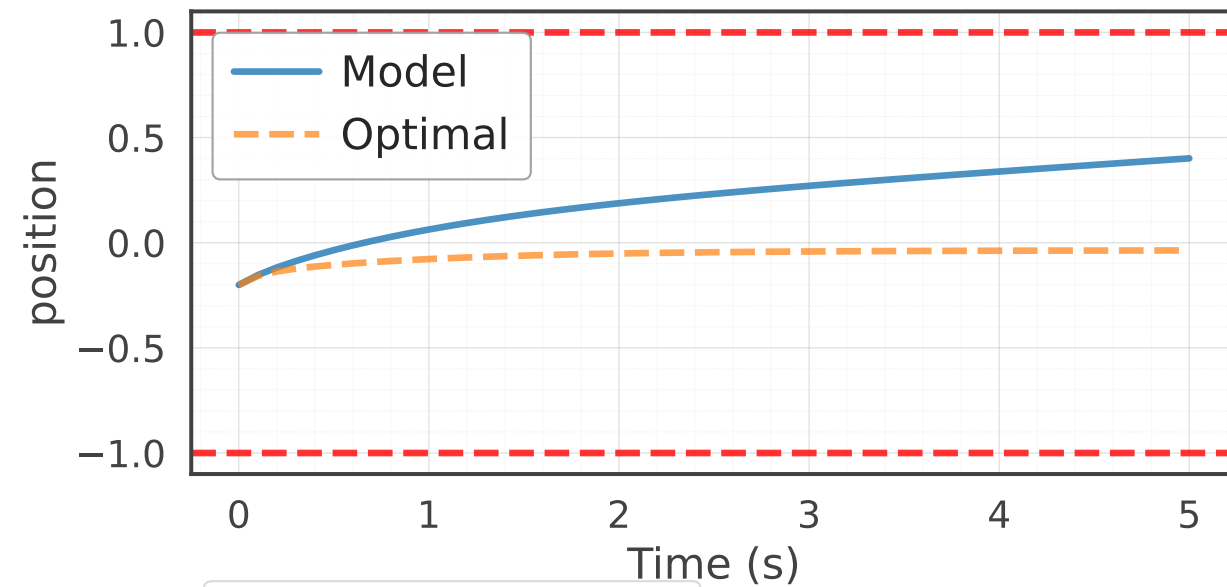**Initial State: (np.float64(-0.20073580984422001), np.float64(0.721142890255859))**

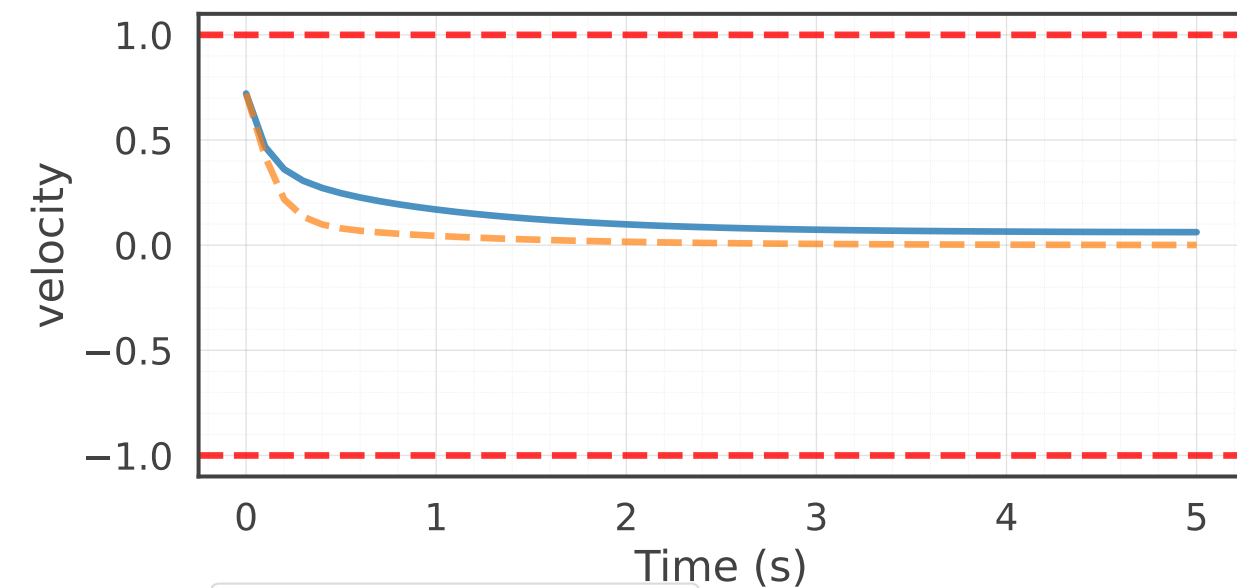**Phase Space**

(a) Phase Space

position vs Time

(b) Position vs Time

velocity vs Time

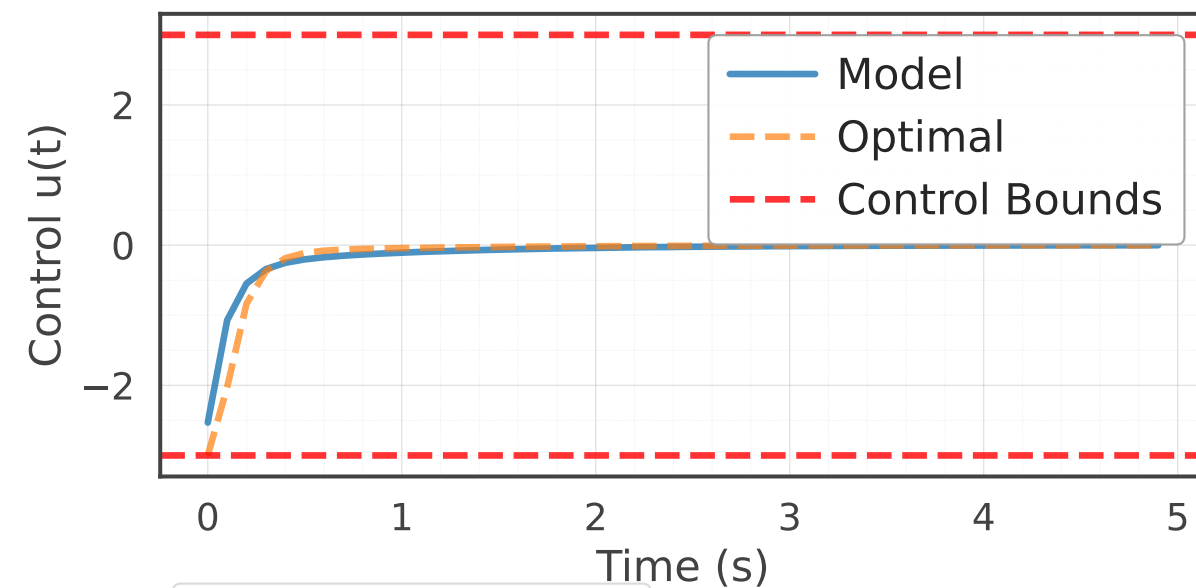**(c) Velocity vs Time**

Control vs Time

(d) Control vs Time