

- create mathematical model of robot using differential equations

- Represent the differential equation is state space $\dot{X} = A x + B u$ M = C x + D v - Last class, I

x is called the state vector

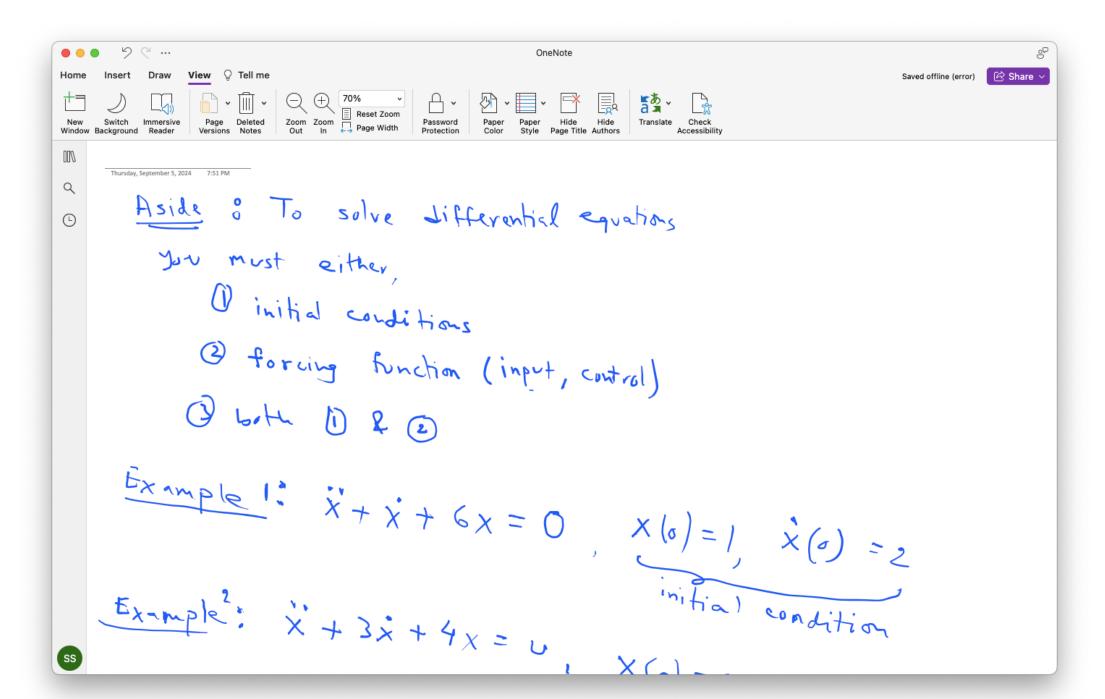
U is called the control vector

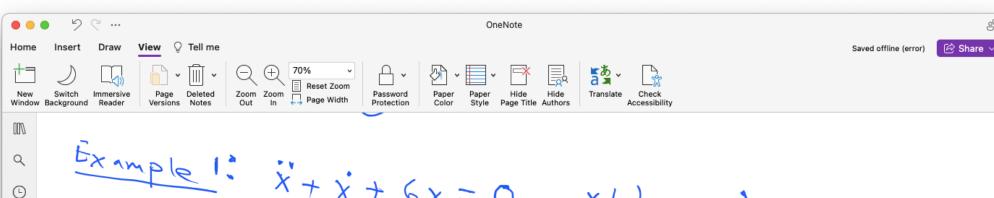
A is called dynamics matrix

B is called the control matrix

obtain state of simple car.

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Example 1: $\dot{x} + \dot{x} + 6x = 0$, $\dot{x}(0) = 1$, $\dot{x}(0) = 2$ Example?: $\dot{x} + 3\dot{x} + 4\dot{x} = 0$, $\dot{x}(0) = 2$, $\dot{x}(0) = 3$ To solve example 2, I have to give you IC & u,

