



6. What is the control input? *(1 point)*
7. Write the mathematical model for your inverted pendulum system. *(5 points)*
8. How are the output and control input related? *(2 points)*
9. What system parameters will you require to be included in the code? *(2 points)*
10. Please bring the components, materials and semi-finished model to class and get it checked by your instructor. Final working demo on Friday, 22nd November 3:30 p.m. *(5 points)*