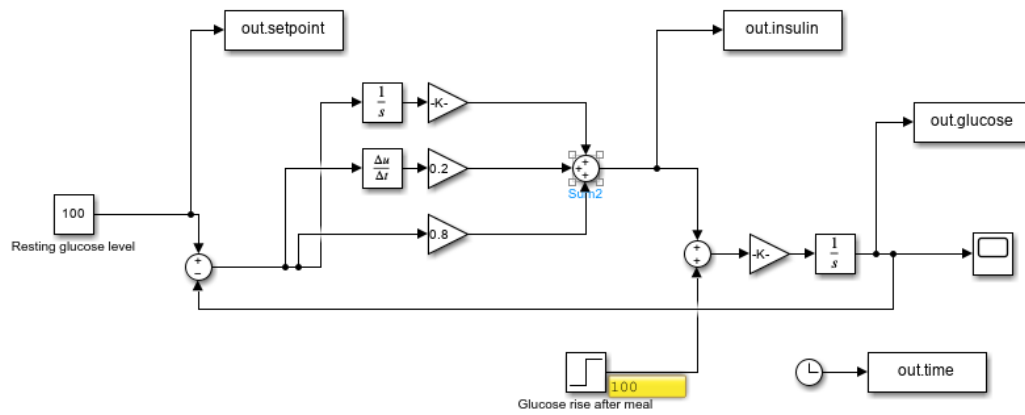
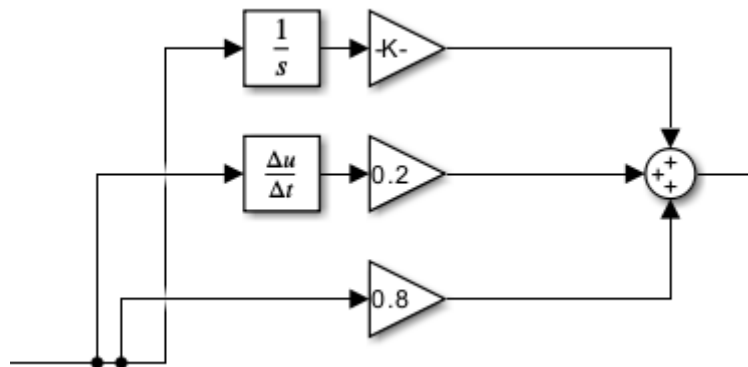


CONTROL PROJECT GRAPHS AND STUFF

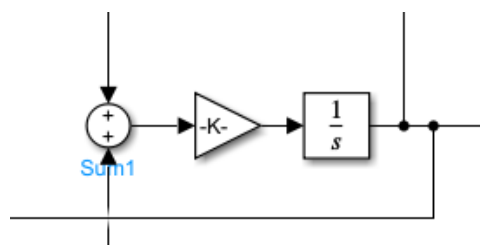
Whole diagram



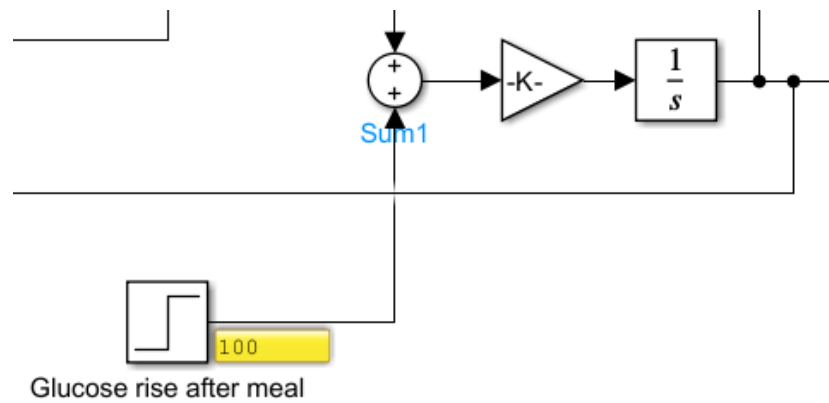
PID CONTROLLER BLOCKS



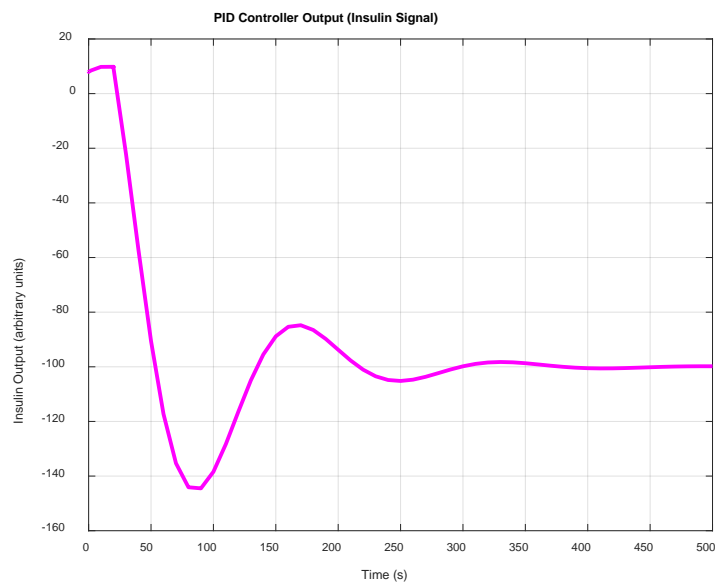
TRANSFER FUNCTION BLOCKS



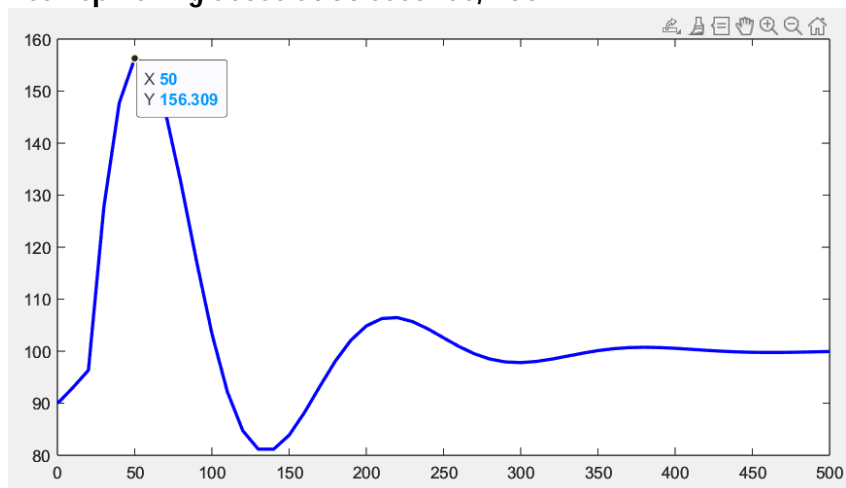
Step function simulating glucose rise after a meal



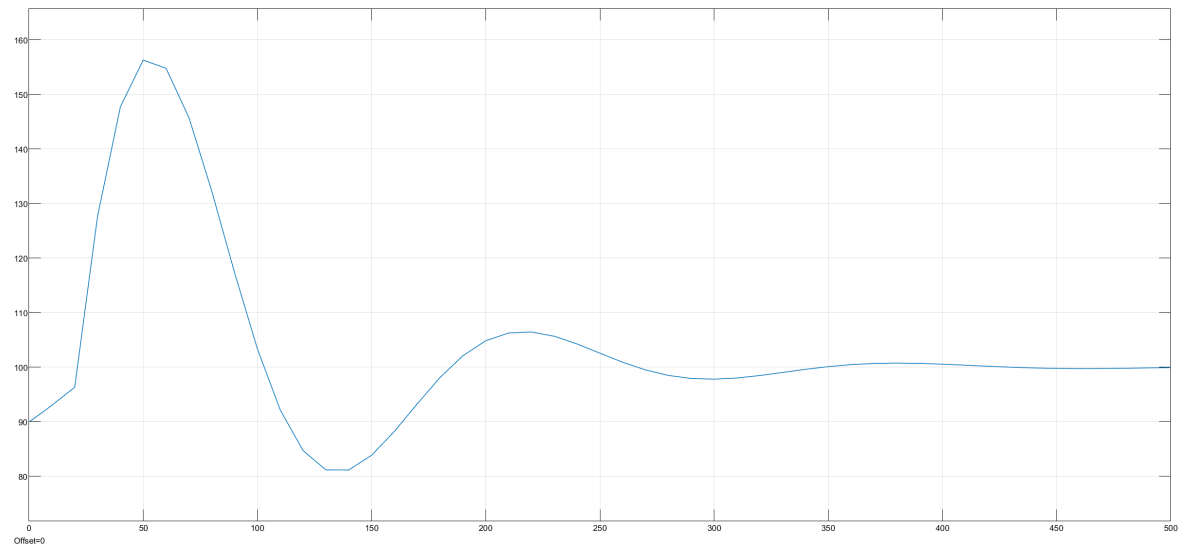
Insuline with time (- sign as it is countering glucose)



Peak spike in glucose at 50 seconds, 156



The progression of glucose, and returning back to normal value



PID Performance Metrics ---

Peak Glucose: 156.31 mg/dL at 50.00 sec

Overshoot: 56.31%

Rise Time (to 90% of peak): 50.00 sec

Settling Time (within $\pm 5\%$): 240.00 sec