

Prelab 7. Please answer the following questions and hand in as your prelab for Lab 7.

1. What is the basic difference between an open and closed-loop control system?

Open-loop control has no feedback and thus has no error control, closed-loop control has feedback where the output is either added or subtracted to the input allowing to visualize the error.

2. What does the acronym "PID" stand for?

Proportional Integral Derivative.

3. When does proportional control lose effectiveness?

Proportional control loses effectiveness as the plant output nears the setpoint and has the limitation that it can't adjust if error persists.

4. Did you watch the intro videos?

Yes.