**CHE244**

**Stoll**

**Spring 2020**

**Assignment #3 – Control Questions – 15 points – Due April 17th**

1. In the Mock GC Oven project, what are the physical devices/components that match the generic terms in Figure 14-34 of the Enke text?

Controlled Process -

Control Element -

Process Variable –

PV Sensor –

Is the control scheme used in the Mock GC Oven and example of **open-loop** or **closed-loop** control?

1. Proportional – Integral – Derivative (commonly known as PID) Control schemes are very common in all areas of engineering and scientific instrumentation. Briefly describe how each of the pieces – the P, I, and D – are useful for achieving high quality control of a given system. For example, what is the P part good for that is not addressed by the I and the D, and so on? The equation on page 443 of the Enke text is critical here.

The P term is good for –

The I term is good for -

The D term is good for -