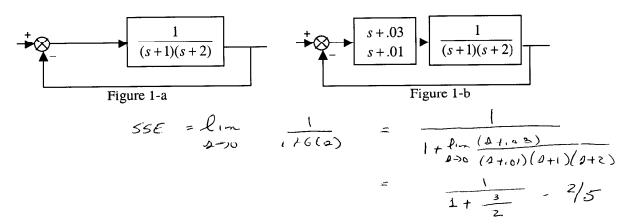
## ECE 365 S/S00 08/03/00 Quiz 8

Name:

Honor Code:

- 1. Figure 1-a has 0.67 SSE due to a step input. A controller is then designed so that the new system is as shown in Figure 1-b.
  - (a) What type of controller is this? LAG
  - (b) What is the new SSE?



- 2. Figure 2-a has 2.67s settling time and 11.51% overshoot. A controller is then designed so that the new system is as shown in Figure 2-b.
  - LEAD (a) What type of controller is this?
  - (b) What is the new overshoot and settling time? 75 = 20, 05 = 11.51%

