Name: _____　　　　　　　　　　**Date:** _____

Quiz 6:

Problem 1:

Are the following true or false?

Question	True	False
The complementary sensitivity is $T(s) = \dfrac{C(s)\,G(s)}{1 + C(s)\,G(s)}$	☐	☐
The sensitivity is $S(s) = \dfrac{C(s)}{1 + G(s)}$	☐	☐
Stability of the basic feedback control loop depends on the zeros of $1 + C(s)\,G(s)$	☐	☐
Proportional controllers are suitable for all plants	☐	☐
If the open loop transfer function is of type 1 and the basic feedback control loop is internally stable, then the static position error is zero.	☐	☐

Problem 2:

Sketch the basic feedback control loop.