

Name: _____

Date: _____

Quiz 2:**Problem 1:**

Are the following true or false?

Question**True False**The transfer function is computed from the LTI ODE with zero initial conditions ☐ ☐The transfer block with the transfer function $e^{-s\Delta}$ corresponds to a delay of Δ ☐ ☐The step response of a first-order lag can be written as $K\sigma(t)(1 - e^{-t/T})$ ☐ ☐The step response of a second-order lag is always bounded ☐ ☐There are different equivalent representations of transfer blocks ☐ ☐**Problem 2:**We are given the following block diagram (left hand side) and its simplified structure (right hand side) Compute $G(s)$.