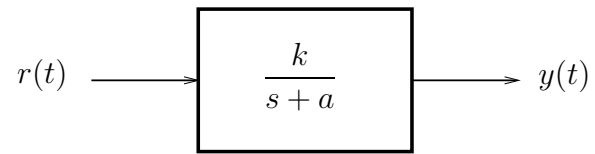


EE 231 first semester AY2021-2022 : Homework 04

Given the following first order system.



1. Assuming a step input, derive the equation for the rise time T_r . Show your complete derivation. Your final expression should only contain one logarithm term. Hint. T_r is approximately equal to $2.2/a$.
2. Assuming a step input, derive the equation for the delay time T_d . Show your complete derivation.