

# EENG307: Intro to Feedback Control

Fall 2020

Homework Assignment #2

Quiz #3

Quiz Question Monday: Find the Laplace Transform of the function  $x(t) = (1 - e^{-t})u(t)$ . Simplify to a ratio of polynomials in  $s$ .

(a)  $X(s) = \frac{s+1}{1}$

(b)  $X(s) = \frac{s}{(s+1)}$

(c)  $X(s) = \frac{1}{s(s+1)}$

(d)  $X(s) = \frac{s(s+1)}{1}$

(e)  $X(s) = \frac{s+1}{s}$