

Quiz #1
ENGR 4220/5220: Control Systems
Professor Hill
University of Detroit Mercy, Summer 2013

Select the best single answer to each of the following multiple choice questions.

1. (2 point) The Laplace Transform converts linear differential equations into:
 - (a) nonlinear differential equations
 - (b) integral equations
 - (c) algebraic equations
 - (d) homogenous equations
2. (2 point) The poles of a Laplace transformed function $F(s) = \mathcal{L}(f(t))$ are
 - (a) equal to the roots of $f(t)$.
 - (b) equal to the roots of the denominator of $F(s)$.
 - (c) equal to the roots of the numerator of $F(s)$.
 - (d) always real.