

Part I Problems

Problem 1: For each of the following functions $f(t)$, find the pole diagram of $F(s)$.

a) $f(t) = 1$

b) $f(t) = e^{-t} + 3e^{-3t}$

c) $f(t) = \cos(2t) + e^{-t} \sin(t)$

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18.03SC Differential Equations
Fall 2011

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