

Answers to ES205 Exam 1, 2006

Problem 1

1.1)

a) $c = 40$

b) 15

1.2) 1.647 rad/s

1.3) 9.486 rad/s

1.4) $2k$ (must show work for full credit)

1.5) $2\dot{y} + 3y = F$

Problem 2

Answer not available.

Problem 3

I had six first order ODEs. My variables were $i_F, i_A, \theta_m, \omega_m, \theta_L, \omega_L$