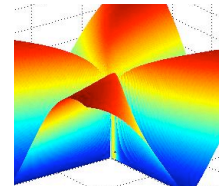


M254H HW 10

Due Friday April 4



From Adams and Essex

Chapter	Page Number	Problems
14.4	817	3, 10, 22, 24
14.5	823-824	2, 7, 11, 17
14.6	830	1, 9, 13, 18
14.7	838	5, 8, 33

Non-Book Problem - For Fun Only

1) A solid cylinder of radius $a > 0$ and uniform density ρ_s rolls from rest down an inclined plane of angle $\alpha > 0$ and length L in a time T_s . A hollow cylinder of identical radius $a > 0$ is filled with an inviscid fluid of density ρ_l and rolls from rest down the same plane in a time T_f . Determine the ratio T_f/T_s .