

18.02 Problem Set 5

(Due Thursday, March 17, 11:59:59 PM)

Part I (60 points)

HAND IN ONLY THE UNDERLINED PROBLEMS

(The others are *some* suggested choices for more practice.)

EP = Edwards and Penny; SN = Supplementary Notes (most have solutions)

Double and triple integrals in rectangular coordinates

Reading: EP §§14.1, 14.2, 14.3, 14.6 SN §I

Exercises:

EP §14.1 31

EP §14.2 6, 14, 17, 22, 28

EP §14.3 6, 17, 24, 33, 37, 42, 44

EP §14.6 3, 7, 17, 43, 44, 48

SN §3A 1, 3

Change of variables, double integrals in polar coordinates

Reading: EP §14.4, SN §CV

Exercises:

EP §14.4 3, 12, 15, 29, 34

SN §3B 2, 4