Problem Set 4

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Note: I use bold symbols to denote vectors and nonbolded symbols to denote scalars. I primarily use vector notation to shorthand some of the sums, since many of the sums are dot products.

Problem 1

(1)

(2)

(3)

(4)

(5)

(6)

(7)

(8)

(9)

(10)

(11)

Problem 2

(1)

(2)

(3)

(4)

(5)

(6)

(7)

Problem 3

(1)

(2)

(3)

Problem 3

(1)

(2)

(3)

(4)