

**Homework #2**

(Due Thursday, January 26<sup>th</sup> by 5:00 pm

Drop off at MSB 4<sup>th</sup> floor, look for Christopher Conley's mailbox)

You are expected to show sufficient intermediate steps, as you would on an exam. One means to be concise in showing work is to cite specific results, theorems, as detailed in the book/lecture (e.g. Result 2.A.11). If it is basic arithmetic or basic vector operations you need not show every element of that calculation (e.g. dot product :  $x'x = x_1^2 + \dots + x_p^2$ ).

1. Exercise 2.25
2. Exercise 2.27 (a), (c)
3. Exercise 2.31
4. Exercise 2.41
5. Exercise 3.14
6. Exercise 3.16
7. Exercise 4.2
8. Exercise 4.3
9. Exercise 4.4
10. Exercise 4.5
11. Exercise 4.18
12. Exercise 4.19
13. Exercise 4.22

**Reading Assignment:** Please read Chapters 3 and 4 of the text.