Problem Set 1

CSCE 411-502 (Dr. Klappenecker)

Due dates: Electronic submission of .tex and .pdf files of this homework is due on **9/9/2015 before 11:00am** on e-campus (as a turnitin assignment), a signed paper copy of the pdf file is due on **9/9/2015** at the beginning of class.

Name: (put your name here)

Resources. (All people, books, articles, web pages, etc. that have been consulted when producing your answers to this homework)

On my honor, as an Aggie, I have neither given nor received any unauthorized aid on any portion of the academic work included in this assignment. Furthermore, I have disclosed all resources (people, books, web sites, etc.) that have been used to prepare this homework.

Signature: _____

Get familiar with LaTeX. Watch the (optional) video. All exercises are from the lecture notes that were (or will) be handed out in class.

Problem 1. (10 points) Exercise 7.2.

Solution.

Problem 2. (10 points) Exercise 7.4.

Solution.

Problem 3. (10 points) Exercise 7.8.

Solution.

Problem 4. (10 points) Exercise 7.14.

Solution.

Problem 5. (10 points) Exercise 7.16 (use finite difference calculus).

Solution.

Problem 6. (10 points) Exercise 7.17.

Solution.

Watch the video on asymptotic notations.

Problem 7. (10 points) Exercise 9.2.

Solution.

Problem 8. (10 points) Exercise 9.6.

Solution.

Problem 9. (10 points) Exercise 9.15.

Solution.

Problem 10. (10 points) Exercise 9.21.

Solution.

I will allow that you explore some of the problems in class together with your team, **but** the homework solution must be formulated by yourself. Homeworks must be typeset in LaTeX.

Solution.

Checklist:

- ☐ Did you add your name?
- ☐ Did you disclose all resources that you have used?
  (This includes all people, books, websites, etc. that you have consulted)
- ☐ Did you sign that you followed the Aggie honor code?
- ☐ Did you solve all problems?
- ☐ Did you submit (a) your latex source file and (b) the resulting pdf file of your homework?
- ☐ Did you submit (c) a hardcopy of the pdf file in class?