

Problem Set 5
CSCE 440/640 Fall 2012

Due dates: Electronic submission of .tex and .pdf files of this homework is due on **10/12/2012 before 9:00am** on csnet.cs.tamu.edu, a signed paper copy of the pdf file is due on **10/12/2012** 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: _____

Problem 1. (15 points) Exercise 5.2 on page 217 of the textbook.

Solution.

Problem 2. (20 points) Exercise 5.6 on page 221 of the textbook.

Solution.

Problem 3. (15 points) Exercise 5.17 on page 234 of the textbook.
[It should read: $a > 1$.]

Solution.

Problem 4. (15 points) Exercise 5.18 on page 234 of the textbook.
[Correct the typo: $\gcd(64 - 1, 19)$ should be $\gcd(64 - 1, 91)$.]

Solution.

Problem 5. (15 points) Exercise A4.18 on page 636 of the textbook.

Solution.

Problem 6. (20 points) Write a short 1–2 page summary of one of the key paper for your term project. Describe the goals of your project, and list related work.

Solution.

Discussions on piazza are always encouraged, especially to clarify concepts that were introduced in the lecture. However, discussions of homework problems on piazza should not contain spoilers. It is okay to ask for clarifications concerning homework questions if needed.

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?