CSCE 222 [503] Discrete Structures for Computing Spring 2015 – Philip C. Ritchey

Problem Set 4

Due dates: Electronic submission of the PDF file for this homework is due on 2/19/2015 (Thursday) before 11:59 p.m. on http://ecampus.tamu.edu. A signed and stapled paper copy of the PDF is due on 2/20/2015 (Friday) at the beginning of class. You must show your work. No work \rightarrow no credit.

Name: (type your name here)

Signature:

Resources. Discrete Mathematics and Its Applications by Rosen, (additional people, books, articles, web pages, etc. that have been consulted when producing 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.

Problem 1. (10 points) Section 9.1, Exercise 4, page 581
Solution.
Problem 2. (10 points) Section 9.1, Exercise 26, page 582
Solution.
Problem 3. (10 points) Section 9.1, Exercise 34, page 582
Solution.
Problem 4. (10 points) Section 9.1, Exercise 36, page 582
Solution.
Problem 5. (10 points) Section 9.2, Exercise 2, page 589
Solution.
Problem 6. (10 points) Section 9.3, Exercise 32, page 597. (Definitions of <i>irreflexive</i> and <i>asymmetric</i> are on pages 581–582)
Solution.
Problem 7. (10 points) Section 9.5, Exercise 2, page 615
Solution.
Problem 8. (10 points) Section 9.5, Exercise 18, page 615
Solution.
Problem 9. (10 points) Section 9.6, Exercise 4, page 630
Solution.
Problem 10. (10 points) Section 9.6, Exercise 16 a) and b), page 630
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 **every problem**?
- () Did you submit the PDF file of your homework on eCampus?
- () Did you submit a **signed and stapled** hardcopy of the PDF file **in class**?