COP4020 Homework Assignment 8

[usual rules apply: name, usernames, repeat question, pdf only, submit to Blackboard under Assignments – Assignment 7]

- 1. Exercise 9.4 [ed 3]: Write a C# class that represents complex numbers. Provide four *properties*, for x, y, p, and theta. Discuss the time and space tradeoffs between maintaining all four values in the state of the object, or keeping only two and computing the others on demand. [Note: x,y are the real and imaginary components, p and theta are the radius and angle in trig representation.]
- **2.** Exercise 9.6 [ed 3] = 9.5 [ed 2]
- **3.** Exercise 9.16 [ed 3] = 9.13 [ed 2]
- **4.** Exercise 9.17 [ed 3] = 9.14 [ed 2]
- **5**. Exercise 9.20 [ed 3] = 9.17 [ed 2]