

Due: Friday, February 1st (in class; e-mail by 10:29 am)

## Reading

For Wednesday, January 23rd, Sections 3.1 through 3.4.

For Friday, January 25th, Sections 3.5 and 3.6.

For Wednesday, January 30th, Sections 4.1 and 4.2.

For Friday, February 1st, Sections 4.3 and 4.4.

## Assignment exercises to hand in

Questions must be solved in a spreadsheet, and must be accompanied by well-written solutions, typeset in  $\LaTeX$ . You should provide full details of how you solved the problems. Please submit your answers directly to the teaching assistant by e-mail (shanweny at sfu dot ca). All file names should begin: math\_208W\_1191\_-name\_hw3\_q1 (or q2, q3) where name is your family name. Submit one .pdf and one Excel file per question in a single e-mail. If you prefer, you may submit a single .pdf file for the 3 questions.

If you send the TA additional e-mails, for instance to update an answer after a late change, please include all files related to your submission in the new e-mail, even if you have previously sent them.

1. Exercise 2.21. Note this is among the supplementary exercises.
2. Exercise 3.3.
3. Exercise 3.7.
4. Case: JetGreen (pp. 64-65).

## Essay topic

Each student will choose a research article that describes an application of Operations Research. Students are required to consult with the instructor about the selection. Each student should select a different article, and articles will be assigned on a first-come, first-served basis. Please contact the instructor when you have a suitable candidate article.

A good place to start looking for an article is the journal *Operations Research*. You should try to find a paper that describes a specific real-World application of Operations Research that has been implemented, and includes technical details. While *Operations Research* and a few other journals try to collect papers of this type from a range of applications, more often such papers appear in journals dedicated to the relevant applications. These can range from the serious to the fun. Note that if you are off-campus, you will can access these journals through the SFU library site using your student credentials.

You are required to select your article by the deadline for this assignment.

## Some other exercises you should try

Additional exercises from Chapters 2 and 3.