

Assignment 1

Due Thursday, October 18. Show your work. Hand in your assignment using the appropriate dropbox on the course web site. Assignments submitted after the solutions are made available will be given a mark of zero.

Question 1

The first exercise of Lecture 1 asked you to estimate service provider revenue based on estimated monthly service fees and number of subscribers.

More detailed information can be obtained from the financial reports of those service providers that are public companies. For example, Shaw's Annual Reports are available at:

<https://www.shaw.ca/Corporate/Investor-relations/Financial-Reports/>

Based on the summary on page 6-7 of Shaw's 2016 Annual Report:

- (a) what was the company's total revenue for 2016?
- (b) how many subscribers (consumer, business and wireless combined) did the company have in 2016?
- (c) what was the revenue per subscriber?
- (d) what was the average monthly revenue per subscriber?
- (d) what is the installation cost per meter? (if available)

Question 2

From the list at:

<https://www.submarinecablemap.com/>
or
https://en.wikipedia.org/wiki/List_of_international_submarine_communications_cables

choose a submarine cable whose name begins with the same letter as your first or last name and answer the following questions:

- (a) what are the landing points?
- (b) when did it go into operation?
- (c) what is the capacity (in b/s)?