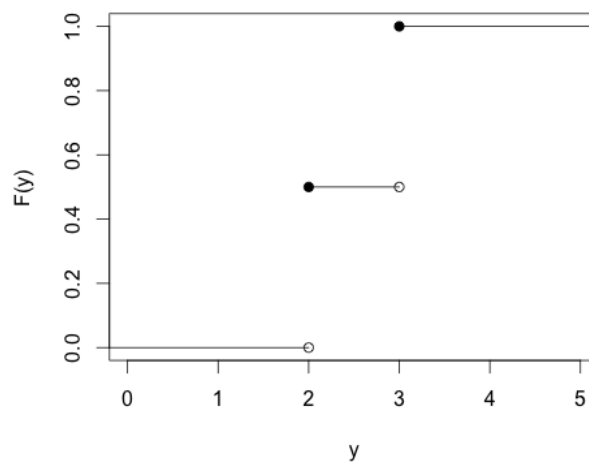# Homework 2

S520, Spring 2019

Due at the beginning of class, Tuesday January 22nd. Please upload your file to Canvas no later than 1pm on the due date. Late submission will be accepted (but penalized) before the solutions are posted.

Trosset question numbers refer to the hardcover textbook. Show all work and include the graphs you are asked to draw.

1. Trosset exercise 3.7.8 (Pre-eclampsia, 15 points.)

2. (a) Draw a graph of the following piecewise function $F(y)$ (3 points):

$$F(y) = \begin{cases} 0 & y < -2 \\ \frac{y+2}{4} & -2 \leq y < 2 \\ 1 & y \geq 2 \end{cases}$$

(b) Write down a formal mathematical expression for the piecewise function $F(y)$ pictured in the graph below (3 points):

3. Trosset exercise 3.7.14 (15 points)

4. Trosset exercise 4.5.2 (15 points)