

# Problem Set 1

*Your Name*

## Question 1

*1a) Put question 1a text here.*

Put answer here. You can format your text as *italic* (or *italic*) and **bold** (or **bold**).

New paragraphs go on their own line, separated by an empty line.

*1b) Put question 1b text here.*

Inline math goes between dollar signs (e.g.,  $\beta$ ).

Centered math goes between double dollar signs, or using the backslash-bracket notation:

$$y = X\beta + \varepsilon$$

$$\hat{\beta} = (X'X)^{-1}X'y$$

You can align math using the `align` or `flalign` latex-style environments. Alignment is based on the ampersand, newlines are created with a double backslash, and equation numbering is controlled by the asterisk:

$$\begin{aligned} c^2 &= a^2 + b^2 \\ &= a \times a + b \times b \end{aligned}$$

## Question 2

*2a) Put question 2a text here*

You can write inline code that gets evaluated like so: 9.

Or you can write inline code that doesn't get evaluated: `x^2`.

You can write code between triple ticks and control evaluation with the `eval` option. Evaluated code will print the results of evaluation into the rendered version of this document.

```
y <- 7
y^2
```

```
## [1] 49
```

*2b) Put question 2b text here*

All of this information (and much more) is available on the RStudio website.