Problem Set 1

Your Name

Question 1

1a) Put question 1a text here.

Put answer here. You can format your text as *italic* and **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., β).

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` 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 <<>>= and @, 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.