STA 602L Homework and Lab Template

Student

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Exercise 1

Brief statement of the problem (optional)

Part (a)

Then, some math:

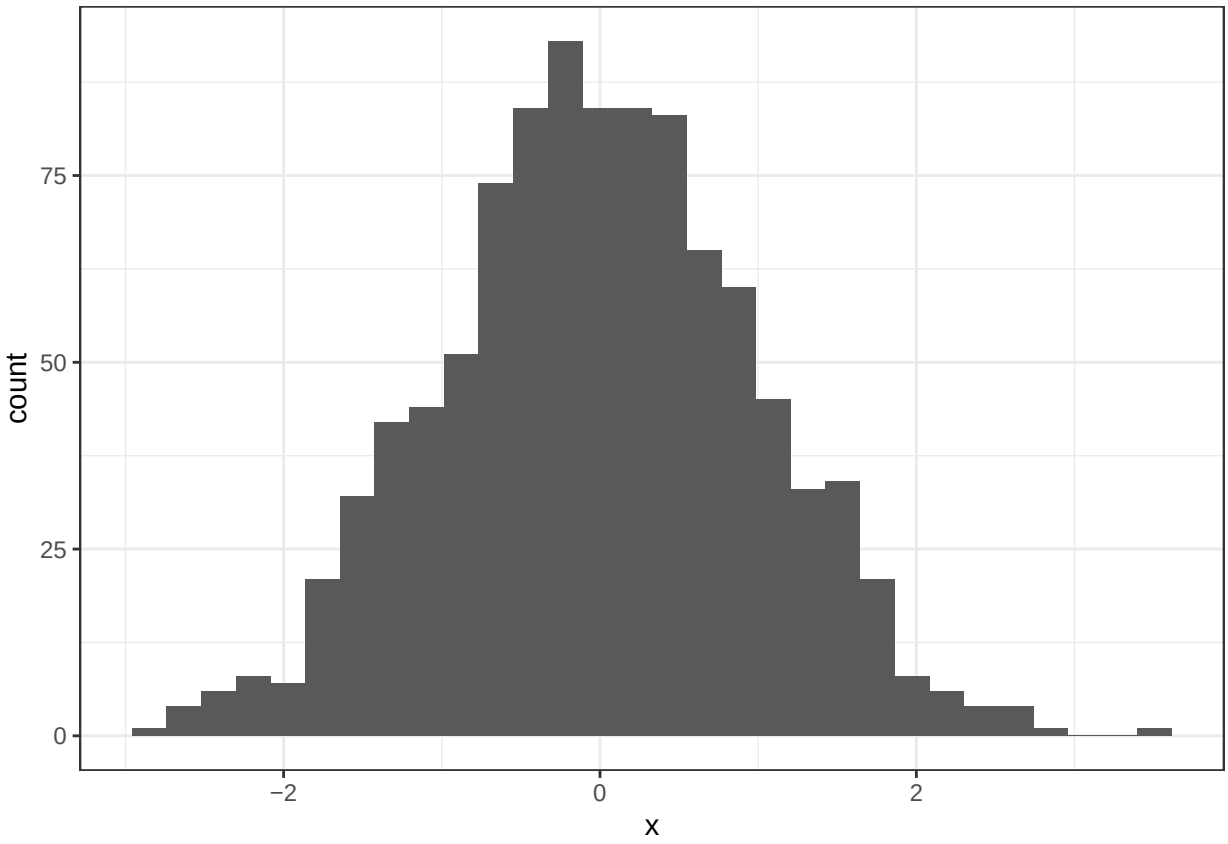
$$X \sim N(\mu, 1) \implies p_X(x) = \frac{1}{\sqrt{2\pi}} e^{-\frac{1}{2}(x-\mu)^2}$$

Part (b)

Finally, some code:

```
x <- rnorm(1000, 0, 1)
x %>% data.frame() %>% ggplot2::ggplot() + geom_histogram(aes(x = x))
```

```
## `stat_bin()` using `bins = 30`. Pick better value with `binwidth`.
```



Exercise 2

Repeat...

Part (a)

Part (b)
