Stats Note Sheet

Graphing Normal and T Distributions

First, loading some packages:

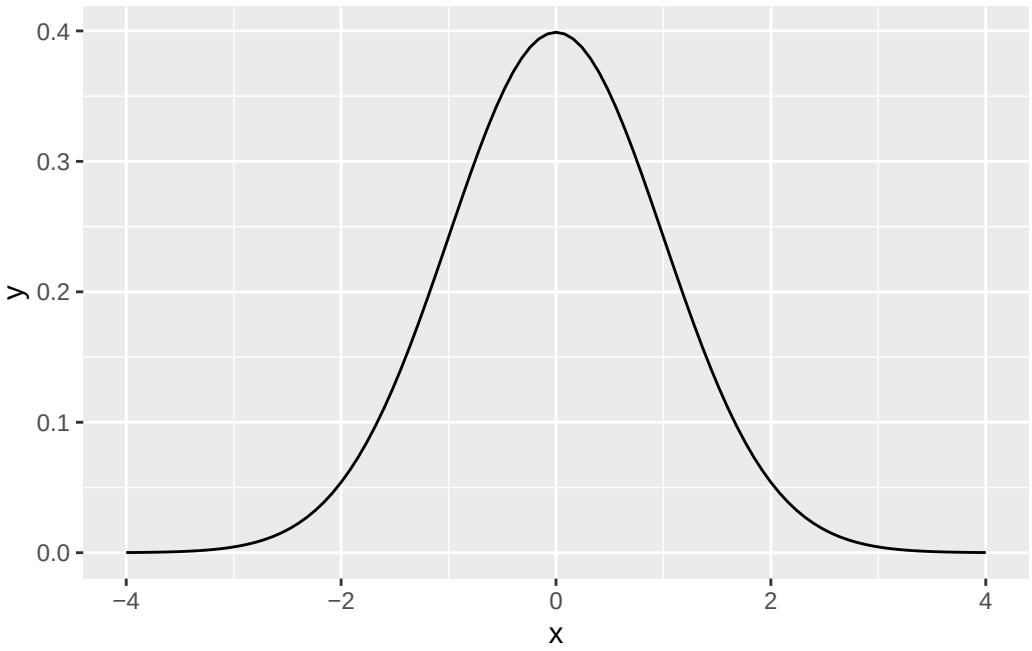
```
library(tidyverse)
```

```
-- Attaching core tidyverse packages ------------------------ tidyverse 2.0.0 --
v dplyr     1.1.4     v readr     2.1.5
v forcats   1.0.0     v stringr   1.5.1
v ggplot2   3.4.4     v tibble    3.2.1
v lubridate 1.9.3     v tidyr     1.3.0
v purrr     1.0.2
-- Conflicts ------------------------------------------ tidyverse_conflicts() --
x dplyr::filter() masks stats::filter()
x dplyr::lag()    masks stats::lag()
i Use the conflicted package (<http://conflicted.r-lib.org/>) to force all conflicts to becor
```

```
library(conflicted)
```

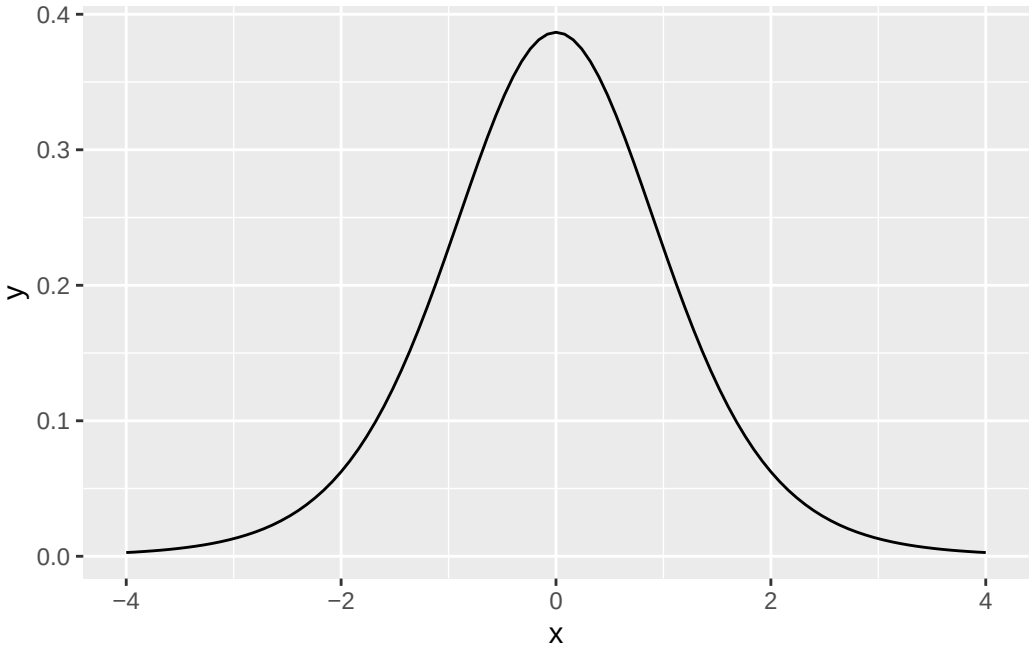
Normal Distribution:

```
normdist <- ggplot(data.frame(x = c(-4, 4)), aes(x = x)) +
        stat_function(fun = dnorm)
normdist
```



T Distribution:

```
tdist <- ggplot(data.frame(x = c(-4, 4)), aes(x = x)) +
        stat_function(fun = dt, args = list(df = 8))
tdist
```


0.4
0.3
0.2
0.1
0.0
y
−4
−2
0
2
4
x