```
In [1]:
```

```
library(testthat)
library(ggplot2)
```

Warning message:

"replacing previous import 'vctrs::data\_frame' by 'tibble::data\_frame' when loading 'dplyr'"

**Question 1.** Assign  $\mathbf{x}$  to the smallest prime number.

```
In [2]:
```

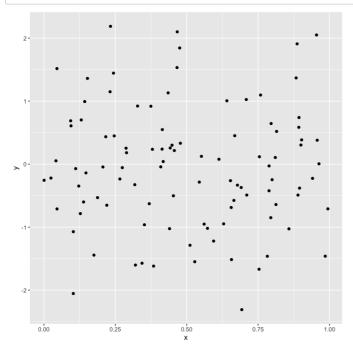
```
x <- 2 # SOLUTION
```

```
In [ ]:
```

```
. = ottr::check("tests/q1.R")
```

## Question 2. Visualize the answer

## In [7]:



This cell is not part of a question.

```
In [8]:
```

```
y = 3
```

Question 3. Define square and assign nine to 3 squared.

```
In [9]:
```

```
square = function(x) {
    y = x * x # SOLUTION
    return(y) # SOLUTION
}
nine = square(3) # SOLUTION
```

```
In [ ]:
```

```
. = ottr::check("tests/q3.R")
```

Question 4. What does equilateral mean?

Type your answer here, replacing this text.

**SOLUTION**: Having equal side lengths.

```
In [13]:
```

```
# this isn't part of a question
# it's here to make sure that we get a MD cell above to close the export
# of question 4
```

Question 5. Approximate the area and circumference of a circle with radius 3.

```
In [14]:
```

```
pi = 3.14
if (TRUE) {
    # BEGIN SOLUTION
    radius = 3
    area = radius * pi * pi
    # END SOLUTION
    print(paste0('A circle with radius', radius, 'has area', area))
}
circumference = function(r) {
    # BEGIN SOLUTION NO PROMPT
    return(2 * pi * r)
    # END SOLUTION
    " # BEGIN PROMPT
    \ensuremath{\text{\#}} 
 Next, define a circumference function.
    "; # END PROMPT
}
```

[1] "A circle with radius3has area29.5788"

```
In [15]:
```

```
# This question has no tests.
```

## Question 6. Write something

This question has a custom prompt below, so that prompt should be in the output. It also has no solution!

Write your thing here.

Question 7: What is the answer?

Type your answer here, replacing this text.

```
SOLUTION: 42
```

**Question 8:** Test intercell seeding by generating 10 random N(4, 2) numbers.

You're done!

## **Submission**

Make sure you have run all cells in your notebook in order before running the cell below, so that all images/graphs appear in the output. The cell below will generate a zip file for you to submit. **Please save before exporting!** 

```
In [ ]:

# Save your notebook first, then run this cell to export your submission.
ottr::export("r-example.ipynb")
```