

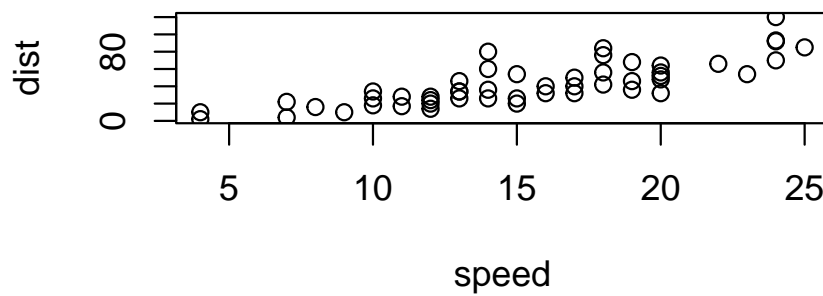
# MATH9999 Practical 1 Solutions

Clement Lee

2024-05-13

1. Plot the `cars` dataset in R.

```
plot(cars)
```



2. Find the numerical value of  $2\pi$ , to 4 decimal places.

```
round(2 * pi, 4)
```

```
## [1] 6.2832
```

3. Show that  $e^{i\pi} + 1 = 0$ .

$$\begin{aligned} e^{i\pi} + 1 &= \cos \pi + i \sin \pi + 1 \\ &= -1 + i \times 0 + 1 = 0 \end{aligned}$$