

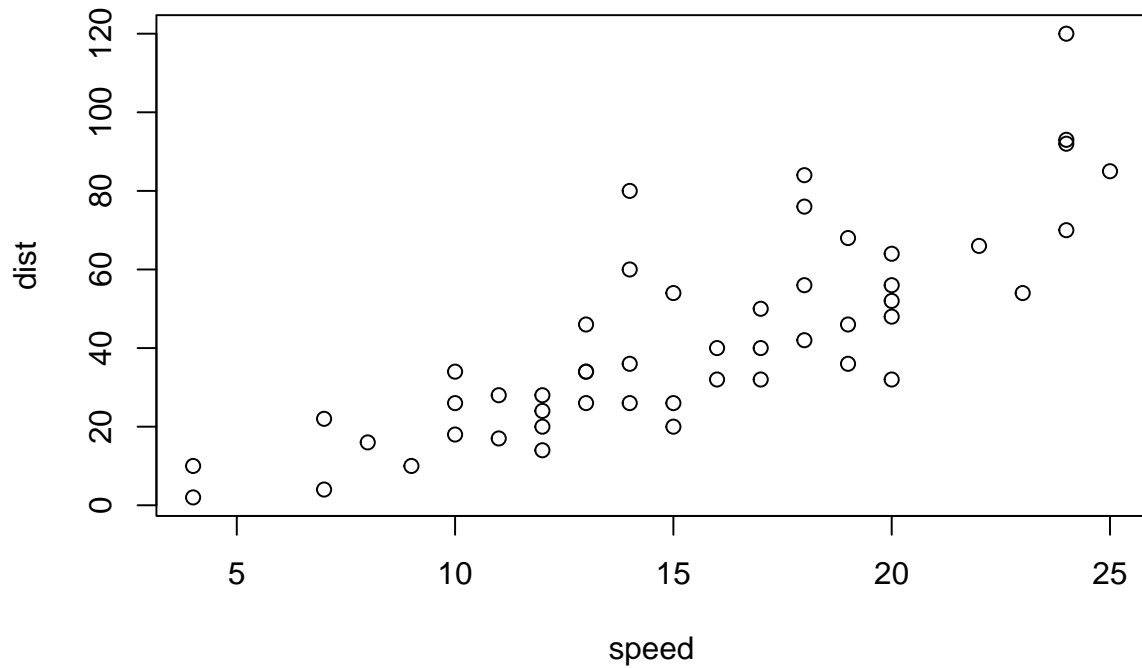
MATH9999 Practical 1 Solutions

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1. Plot the `cars` dataset in R.

```
plot(cars)
```



2. Find the numerical value of 2π , to 4 decimal places.

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

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

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

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