

# Non-life — Assignment X

$Y^*$  and  $Z^\dagger$

September 15, 2016

## Question 1

The power of  $\text{\LaTeX}$  lies in easy and beautiful typesetting of complicated formulas like

$$\sum_{n=0}^{\infty} x^n = \frac{1}{1-x},$$

or

$$\int_{-\pi}^{\pi} \sin\left(\frac{x}{2} + \pi\right) dx = 0,$$

or

$$\begin{pmatrix} 1 & 2 & 3 \\ 4 & 5 & 6 \end{pmatrix} \begin{pmatrix} 1 \\ 1 \\ 1 \end{pmatrix} = \begin{pmatrix} 6 \\ 15 \end{pmatrix}.$$

In an `align*` environment (included in package `amsmath`) the characters following the tab-sign & are aligned:

$$\begin{aligned} (1-x)(1+x+x^2+\dots+x^n) &= 1-x+x-x^2+x^2-\dots+x^n-x^{n+1} \\ &= 1-x^{n+1}. \end{aligned}$$

## Question 2

The `verbatim` environment serves to typeset source code, or output, of programs:

```
> X <- c(100, 120, 80, 80, 120)
> mean(X); sd(X)
[1] 100
[1] 20
```

---

\*Student number: 00000000

†Student number: 99999999

### Question 3

A centered graph in encapsulated postscript (.eps) format as produced by R:

```
\includegraphics[scale=.6]IG.eps
```

Other file formats like .jpg work as well:

```
\includegraphics[scale=.6]Poisson.jpg
```

Siméon Denis Poisson (21 June 1781 – 25 April 1840)



With and without copyright notice:

