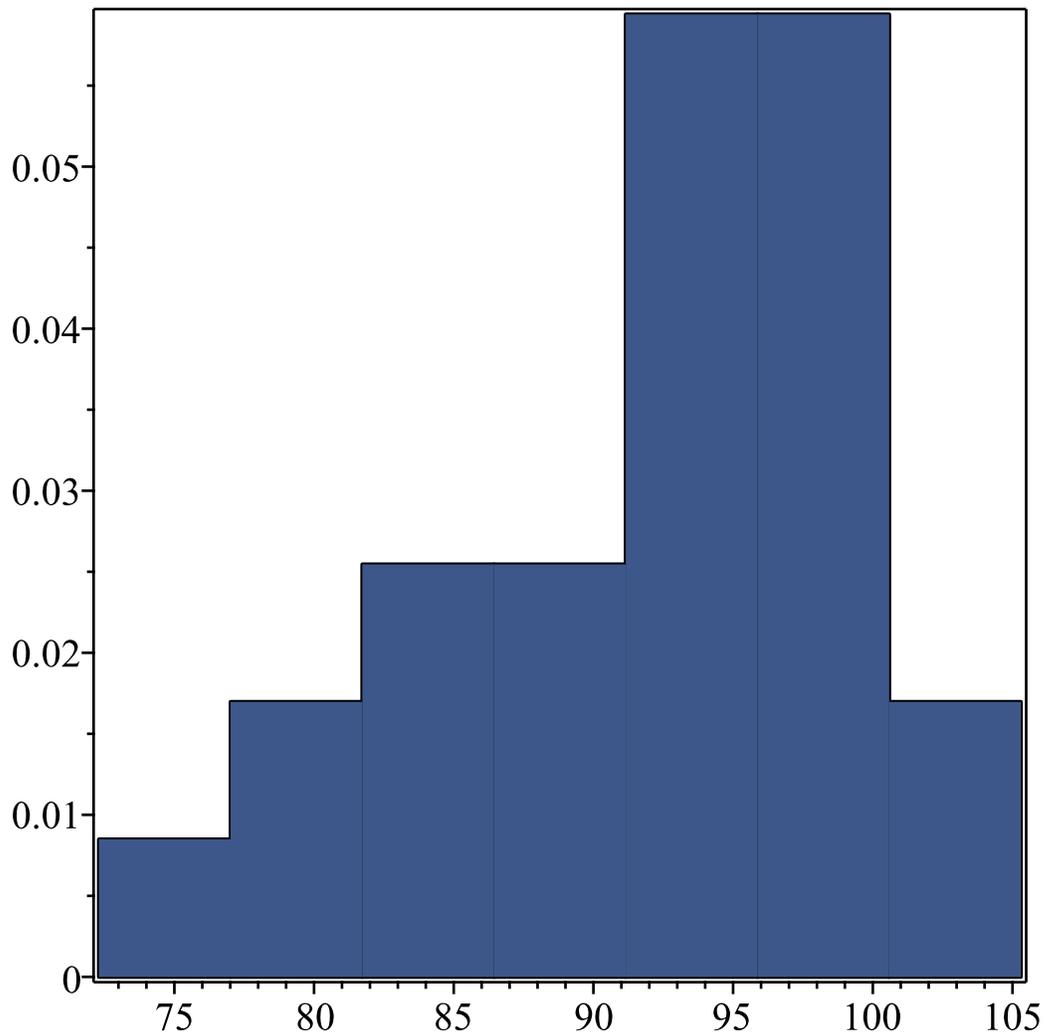


```

> data := [88.3, 72.3, 92.7, 96, 100.3, 96.7, 79, 88, 105.3, 83, 97, 88.3, 95.7, 77.3, 96.3, 94.7, 97.7,
85.3, 95.3, 86, 95, 99.3, 94, 103, 95] :
> with(Statistics) :
> p1 := Histogram(data, bincount = 7)

```



```

> res := fsolve( [Moment(data, 1) = Moment(Weibull(a, b), 1), Moment(data, 2)
= Moment(Weibull(a, b), 2)], {a = 100, b = 100})
res2 := {a = 95.49421250, b = 14.23402015}

```

**(1)**

```

>
> P := ProbabilityDensityFunction(Weibull(a, b), t)

```

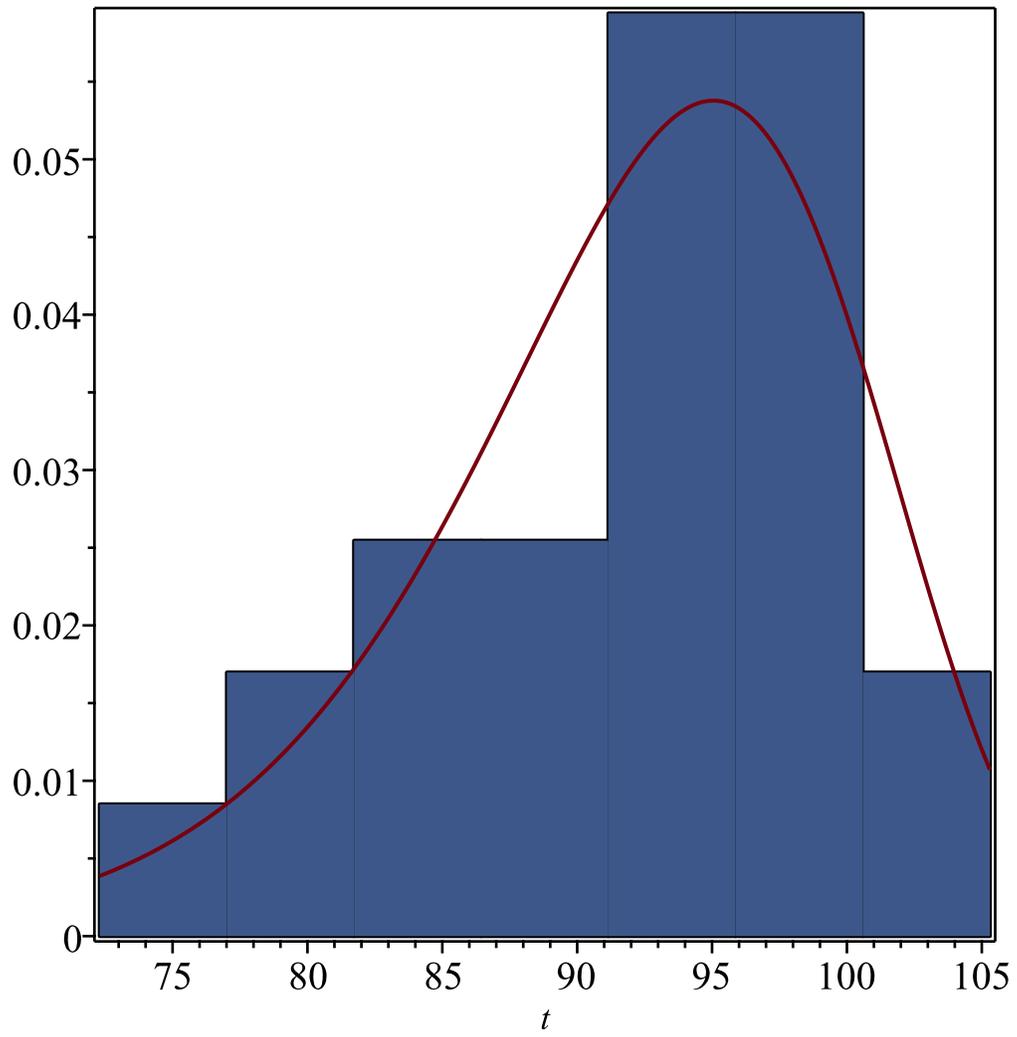
$$P := \begin{cases} 0 & t < 0 \\ \frac{b t^{-1+b} e^{-\left(\frac{t}{a}\right)^b}}{a^b} & \text{otherwise} \end{cases}$$

**(2)**

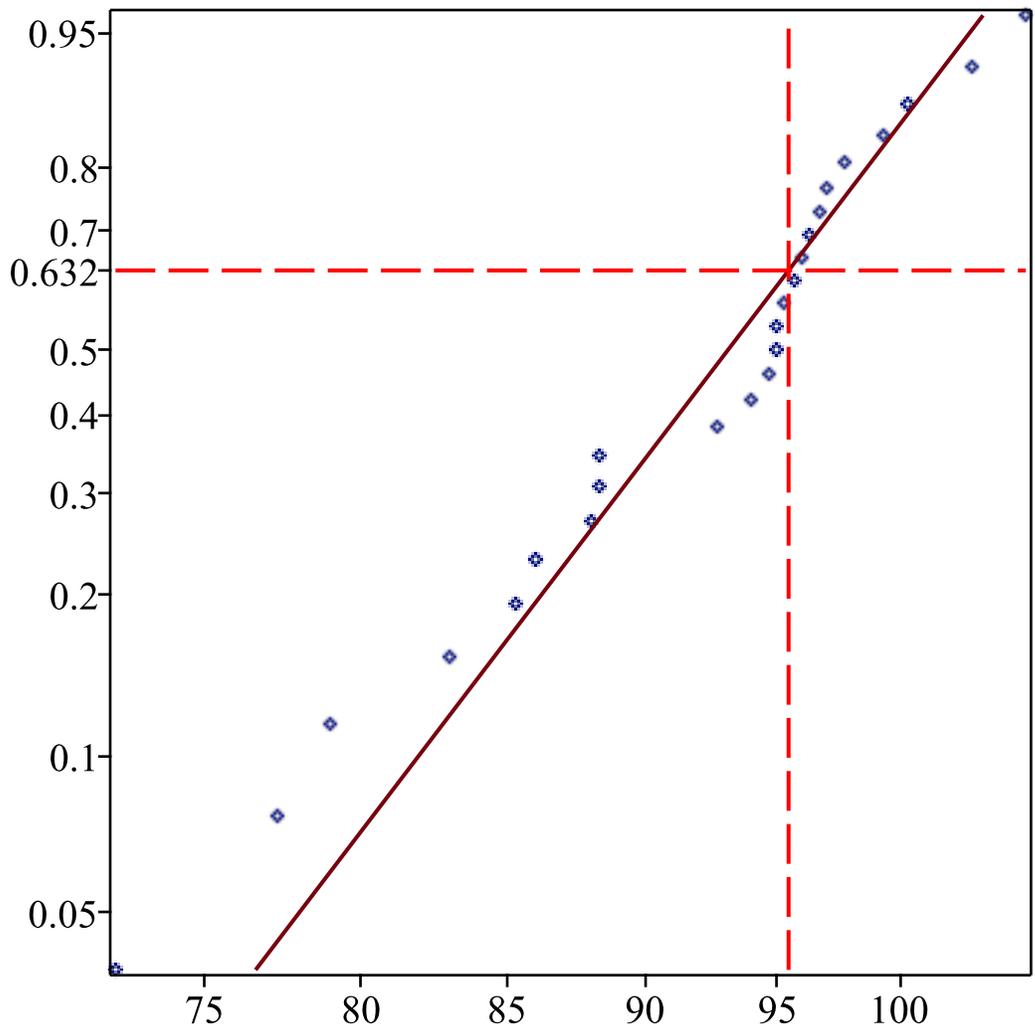
```

> p2 := plot(eval(P, res), t = min(data) .. max(data)) :
> plots:display(p1, p2)

```



> WeibullPlot(data)



>  
>