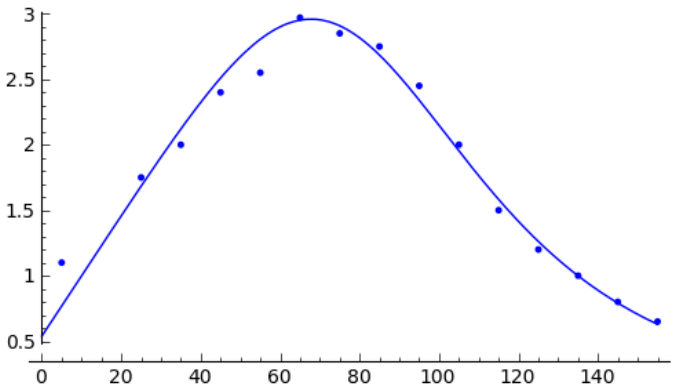
treerot


```
L=[(5, 1.1), (25, 1.75), (35, 2.0), (45, 2.4), (55, 2.55), (65, 2.97), (75, 2.85), (85, 2.75), (95, 2.45),
(105, 2.0), (115, 1.5), (125, 1.2), (135, 1.0), (145, .8), (155, .65)]
pointsPP = point(L)
```

```
p1 = plot(pointsPP,figsize=[6,3])
```

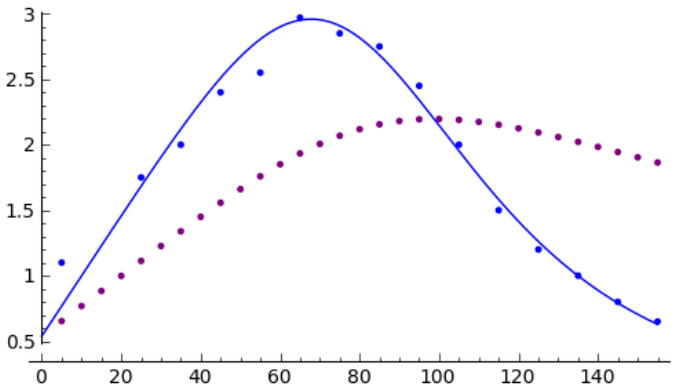
```
f(x) = (169.554*(x+11.67167))/(3677.93+(1.14203*10^(-7))*(x+11.67167)^5.20191)
p2 = plot(f(x),(x,0,155))
```

```
p1+p2
```

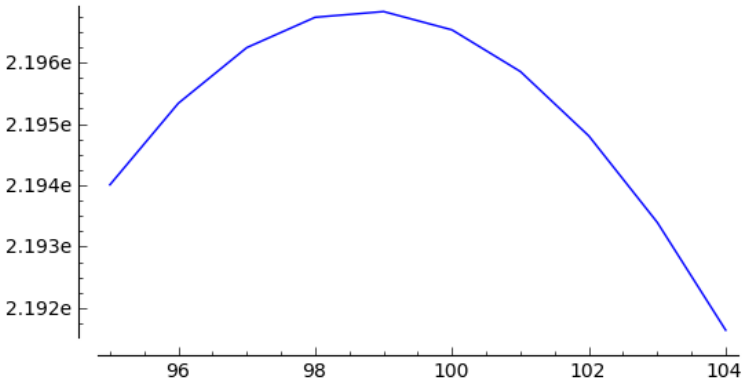



```
p3=point([(T,1/T*numerical_integral(f,0,T)[0]) for T in srange(5,160,5)],color='purple')
```

```
p1+p2+p3
```



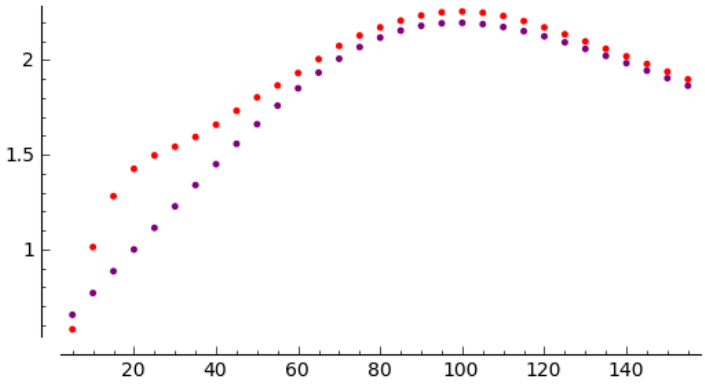

```
line([(T,1/T*numerical_integral(f,0,T)[0]) for T in srange(95,105,1)],figsize=[6,3])
```




```
h=list()
h.append([0,0])
h.append(L[0])
h.append(L[1])
h.append(L[2])
h.append(L[3])
h.append(L[4])
h.append(L[5])
h.append(L[6])
h.append(L[7])
h.append(L[8])
h.append(L[9])
h.append(L[10])
h.append(L[11])
h.append(L[12])
h.append(L[13])
h.append(L[14])
poo=spline(h)
```

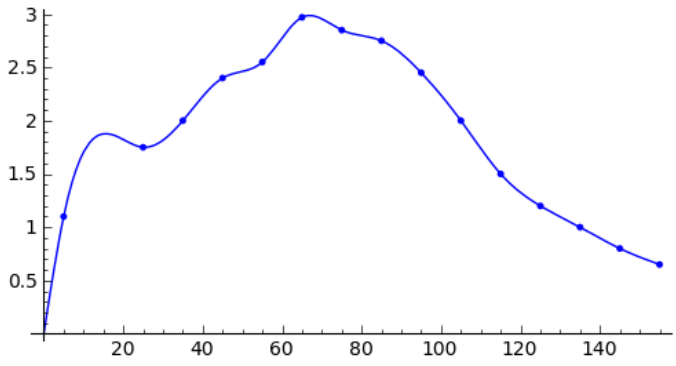
```
p4=point([(T,1/T*numerical_integral(poo,0,T)[0]) for T in srange(5,160,5)],color='red',figsize=[6,3])
```

```
p3+p4
```




```
p5=plot(poo,x,0,160)
p5+p1
```

evaluate


3
2.5
2
1.5
1
0.5
20
40
60
80
100
120
140