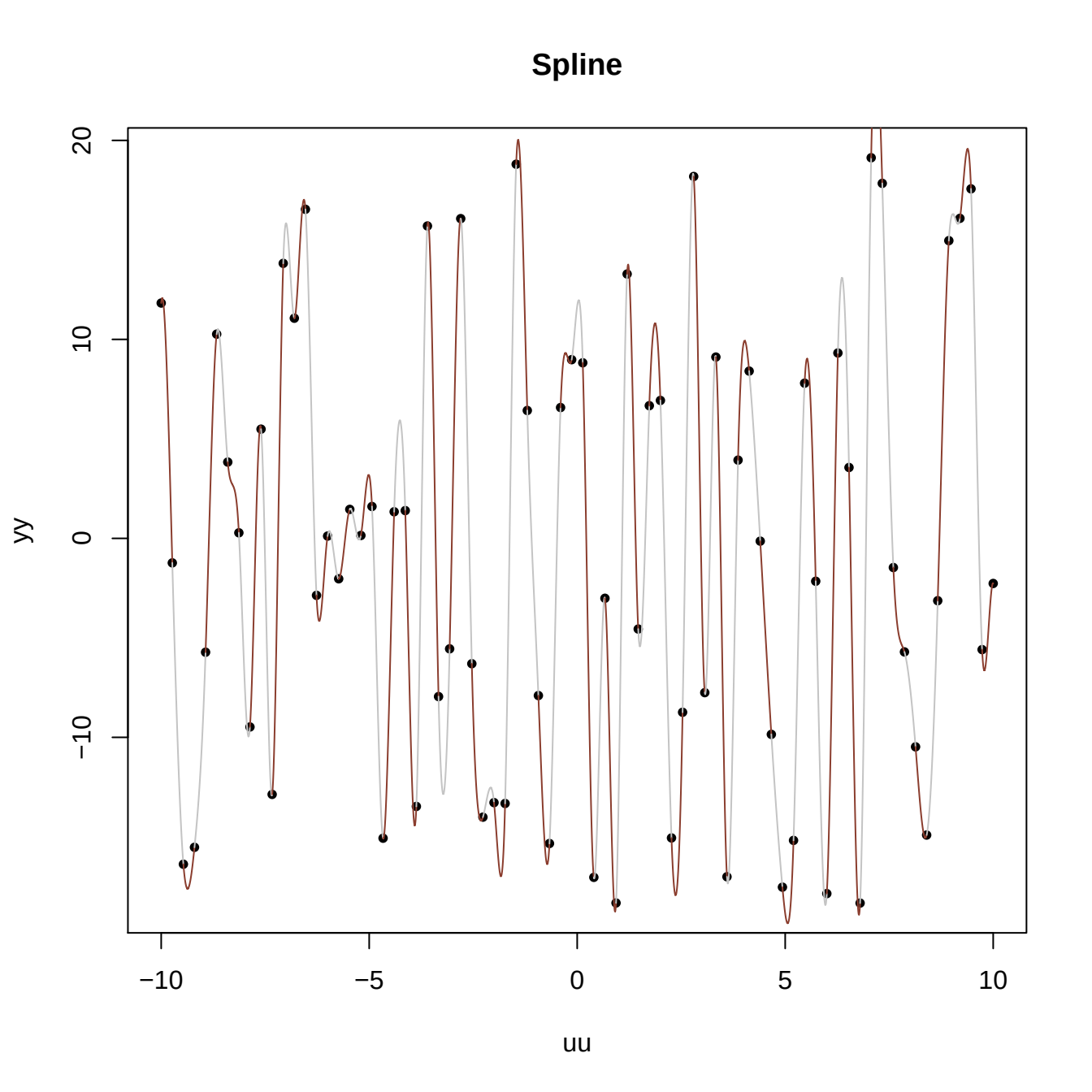
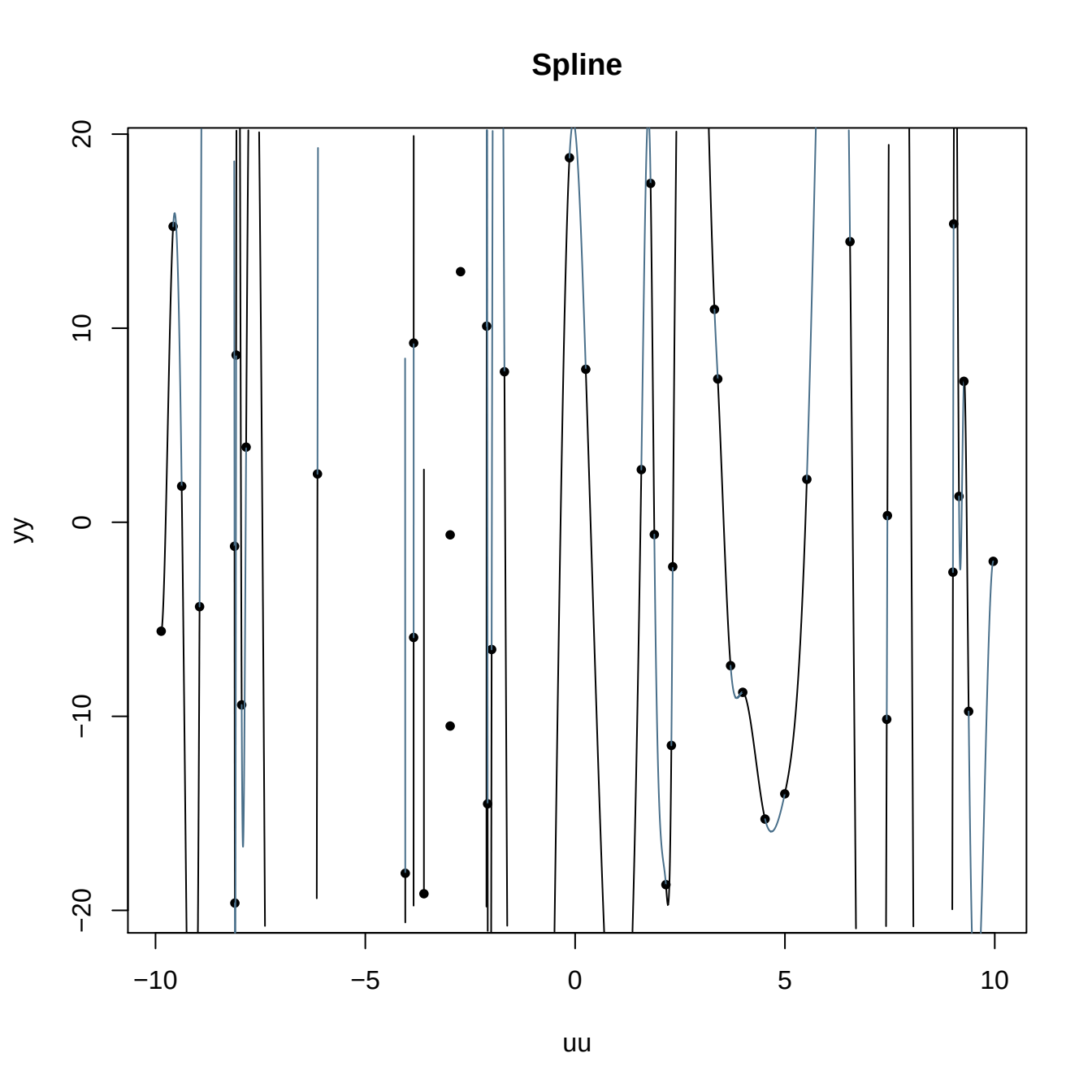

Spline
yy
uu
20
10
0
−10
−10
−5
0
5
10


Spline
yy
uu
20
10
0
−10
−20
−10
−5
0
5
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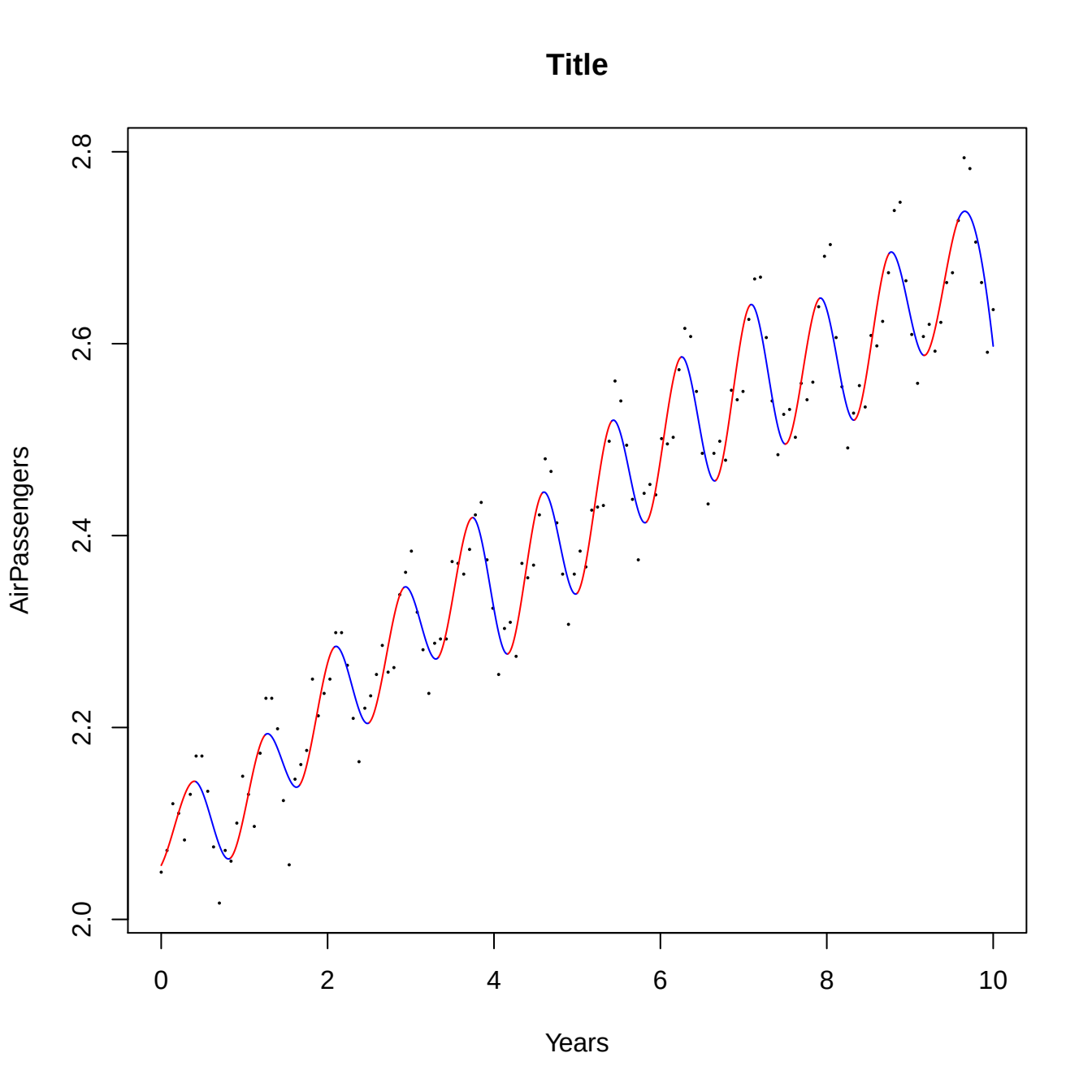
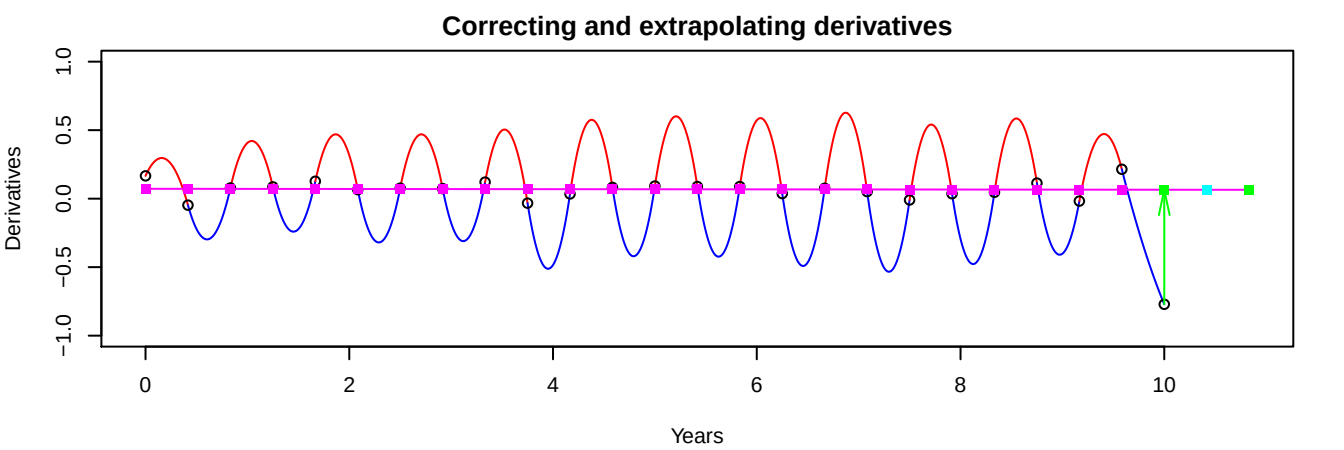
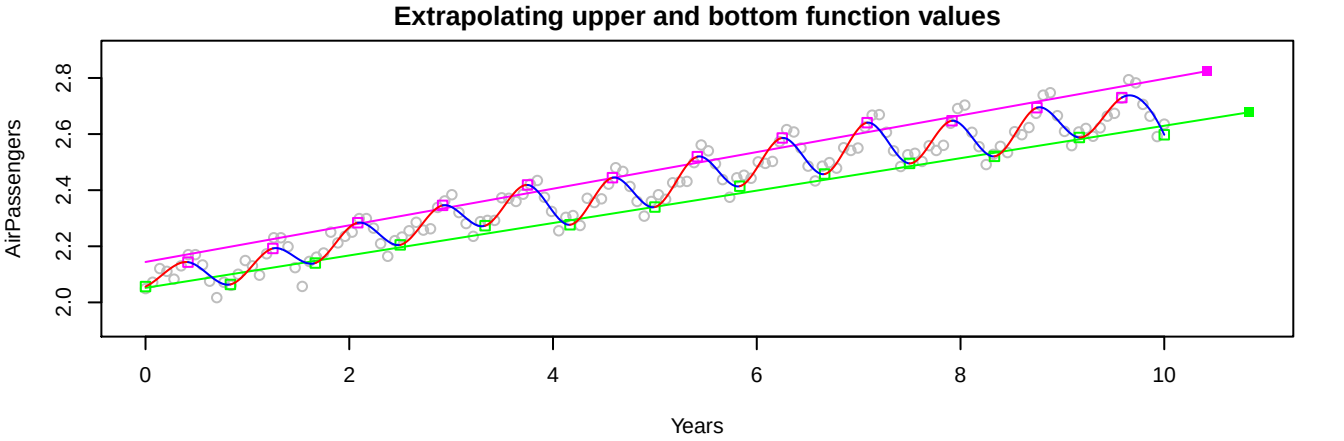
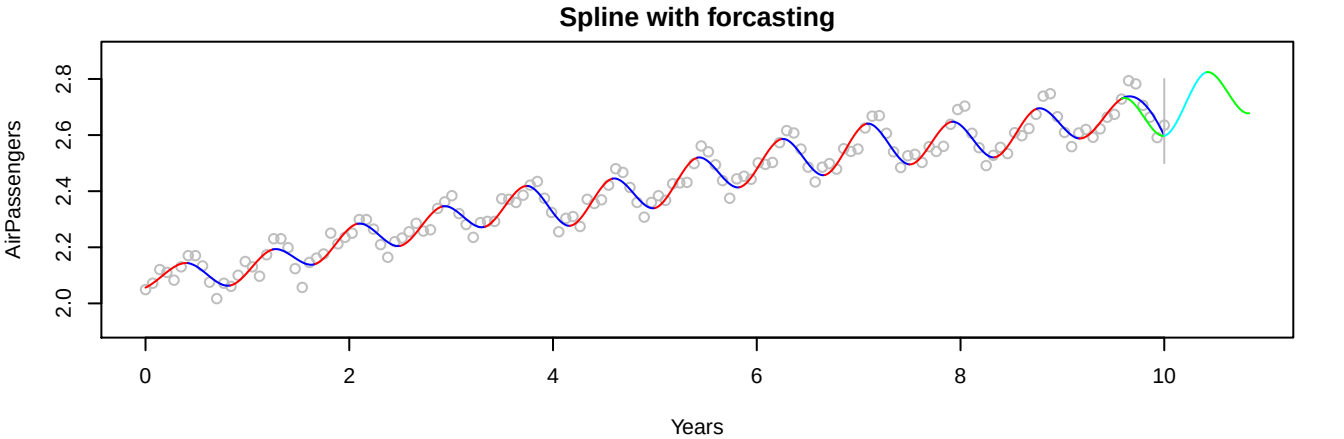
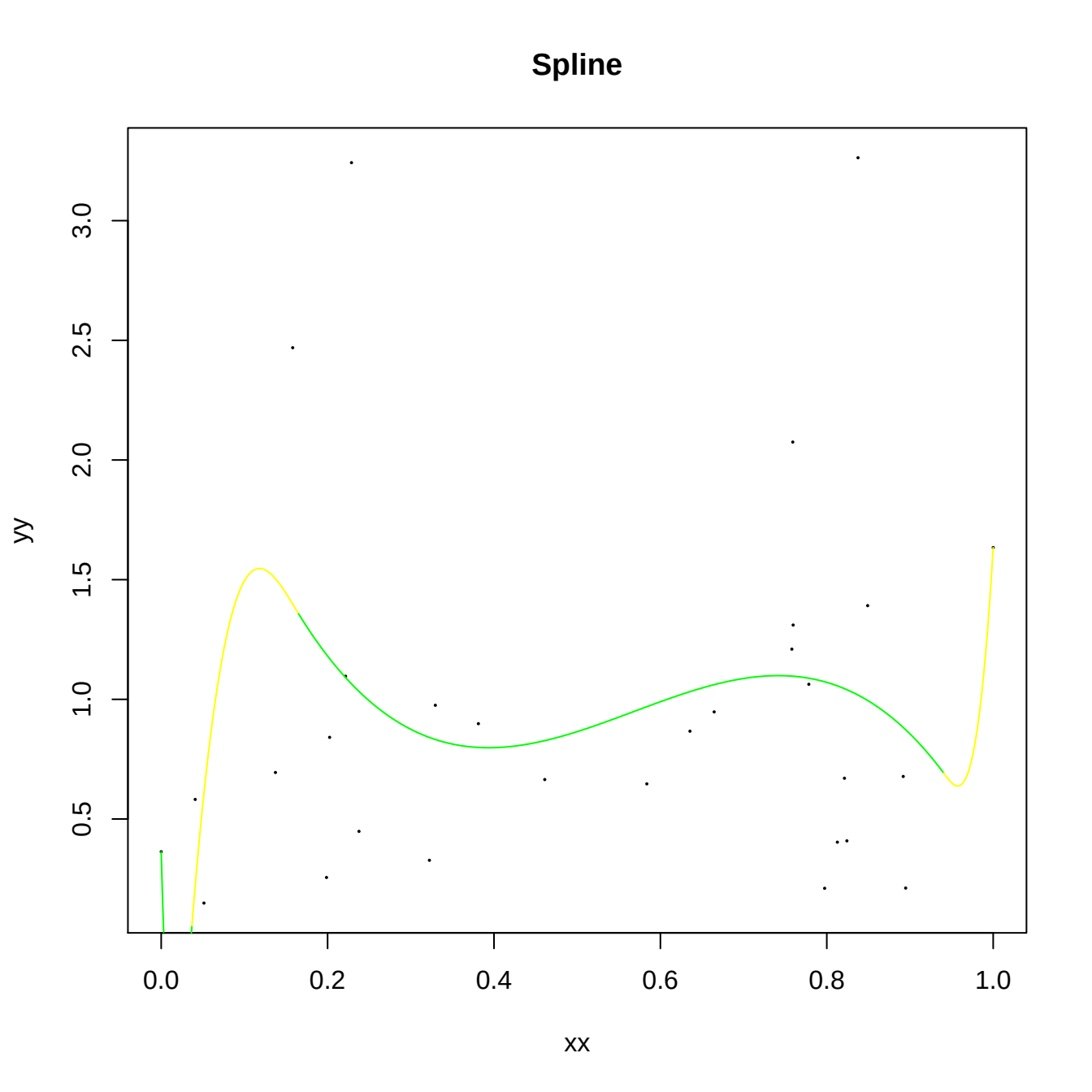
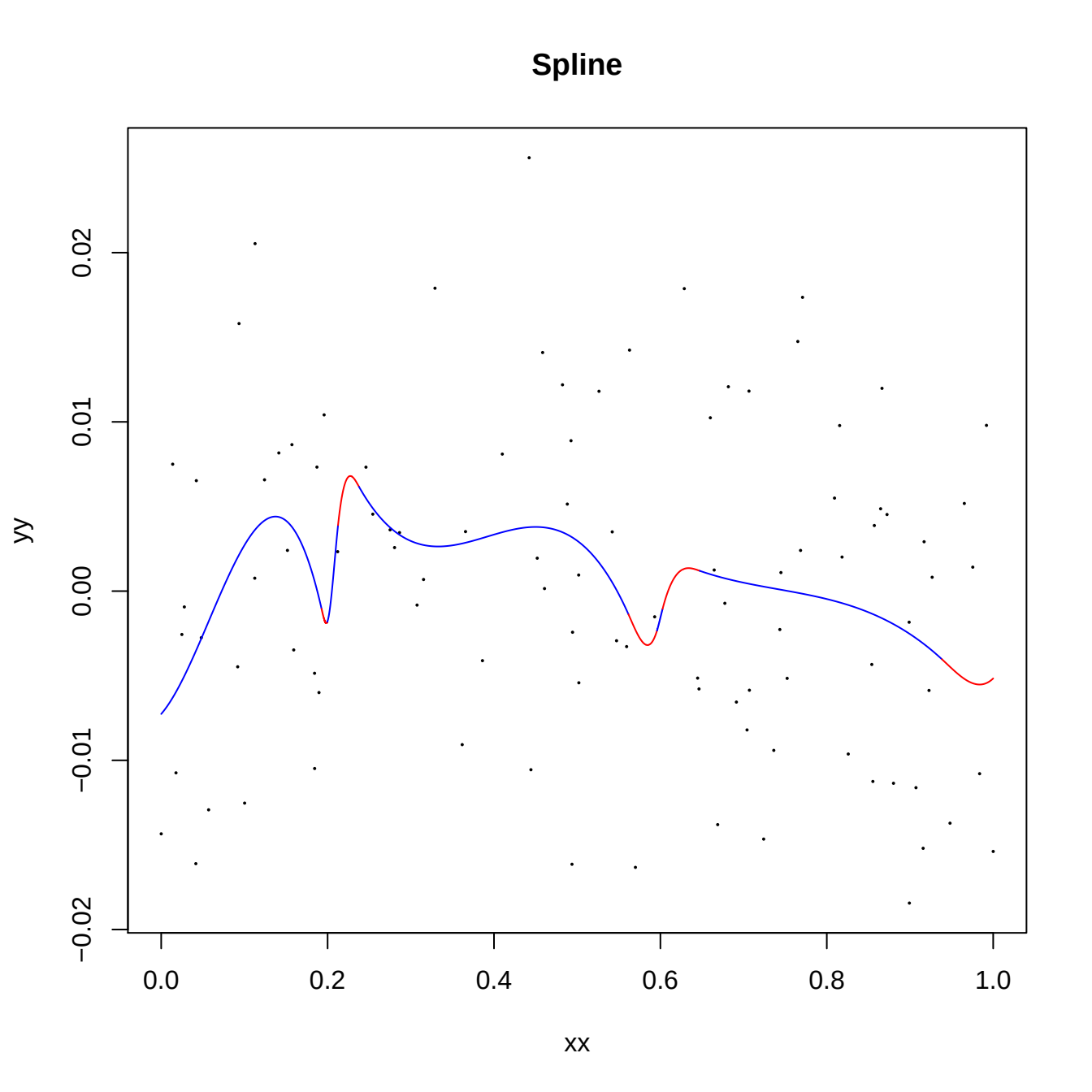

Title
AirPassengers
Years
2.0
2.2
2.4
2.6
2.8
0
2
4
6
8
10

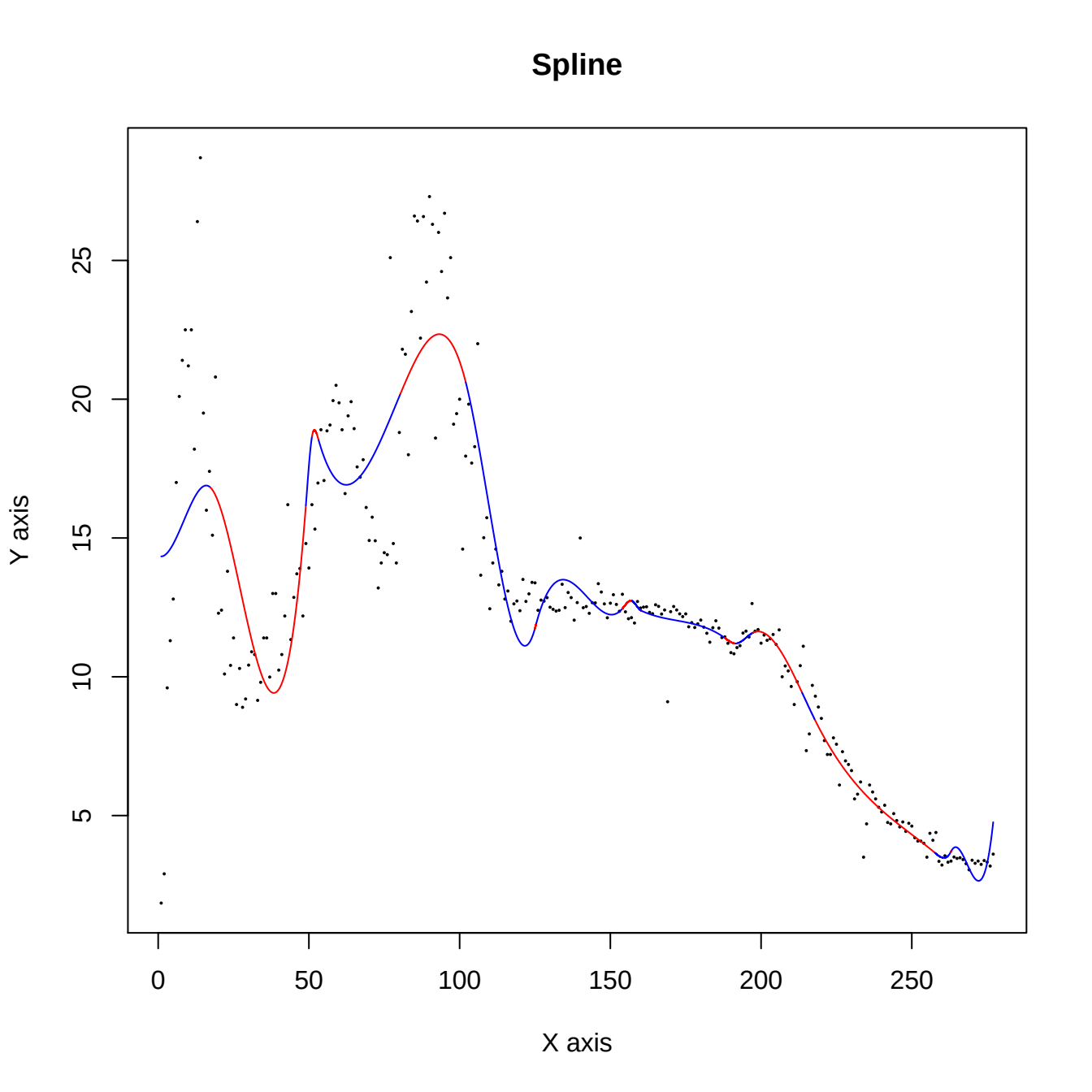

Correcting and extrapolating derivatives
Derivatives
1.0
0.5
0.0
−0.5
−1.0
0
2
4
6
8
10
Years

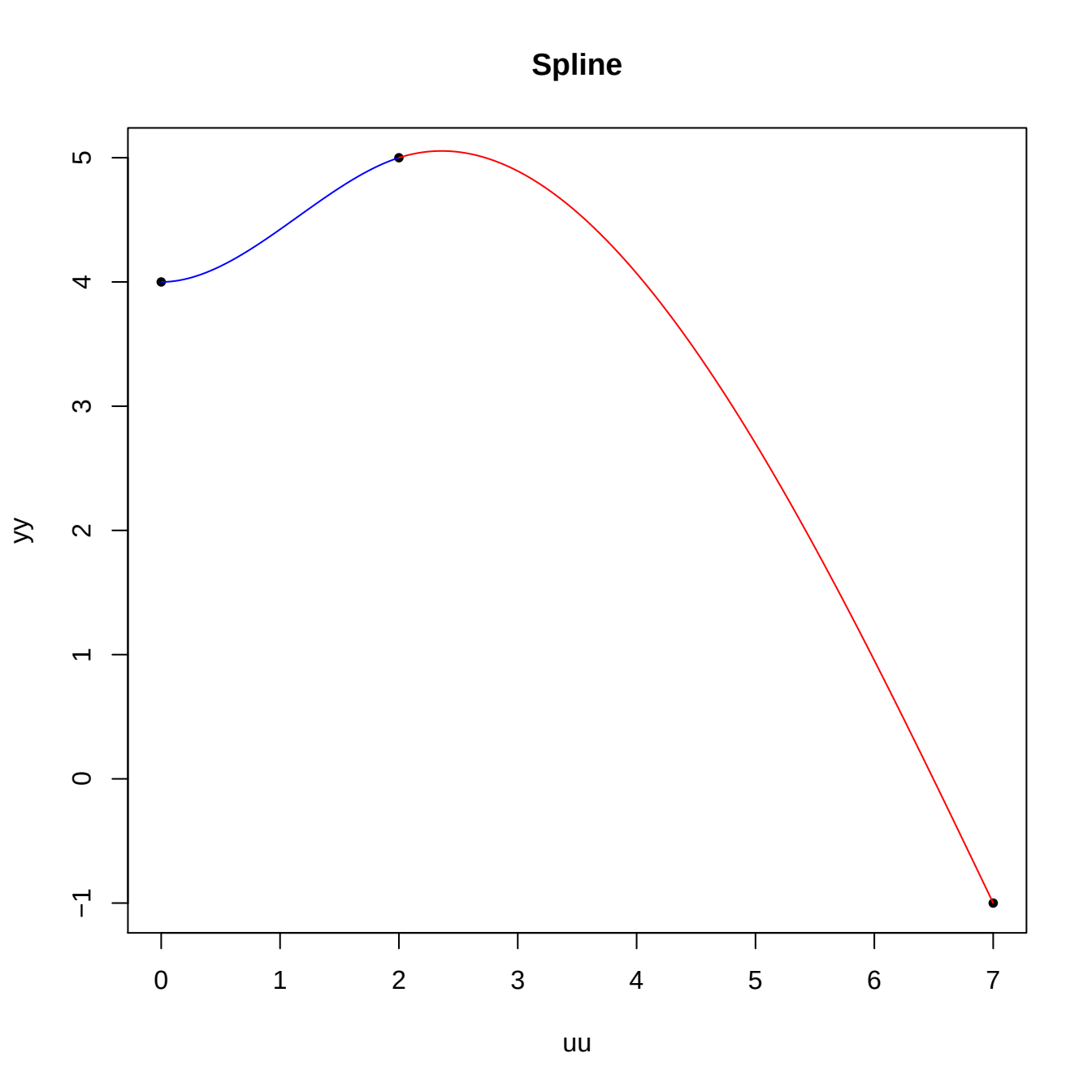

Extrapolating upper and bottom function values
AirPassengers
2.8
2.6
2.4
2.2
2.0
0
2
4
6
8
10
Years

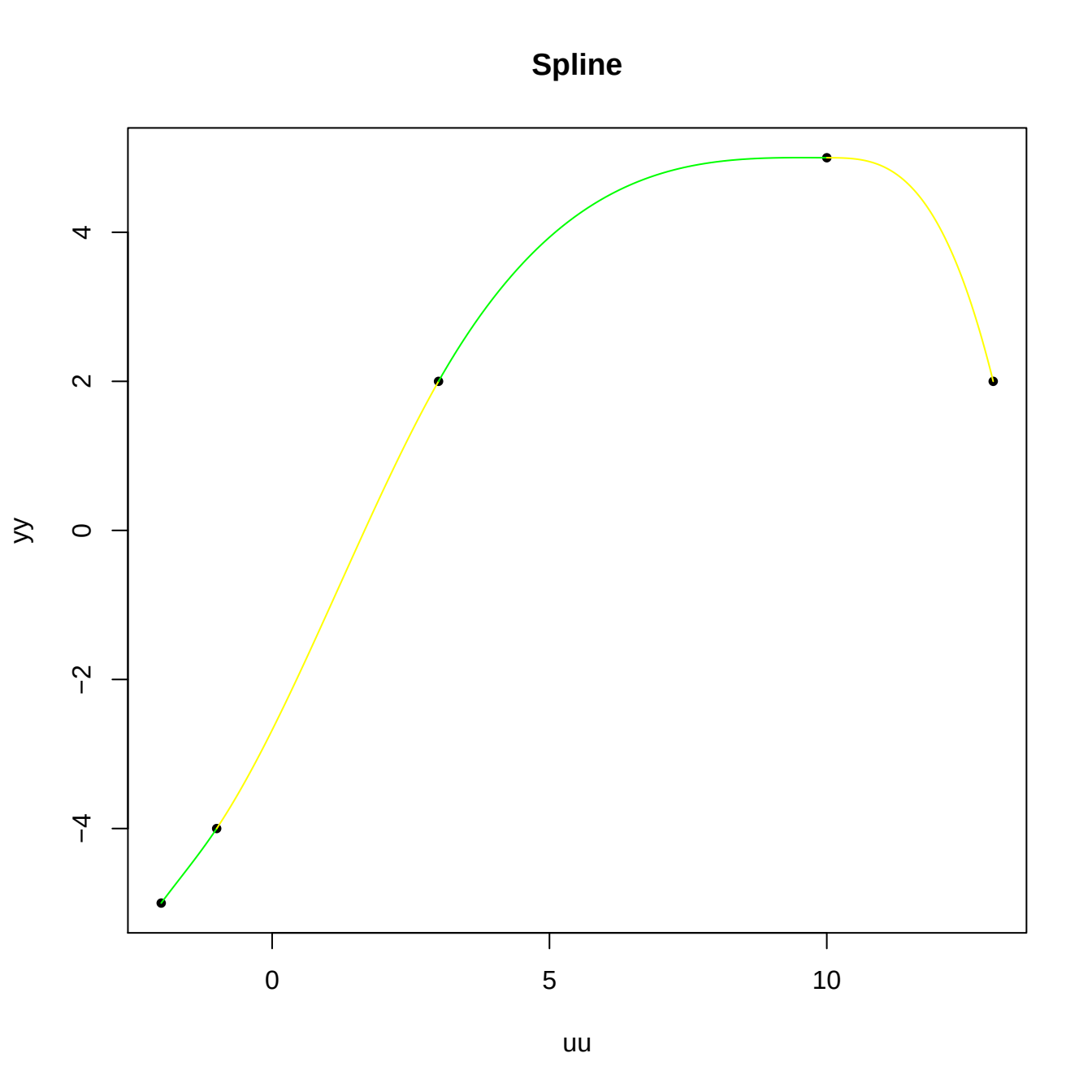

Spline with forcasting
AirPassengers
2.8
2.6
2.4
2.2
2.0
0
2
4
6
8
10
Years

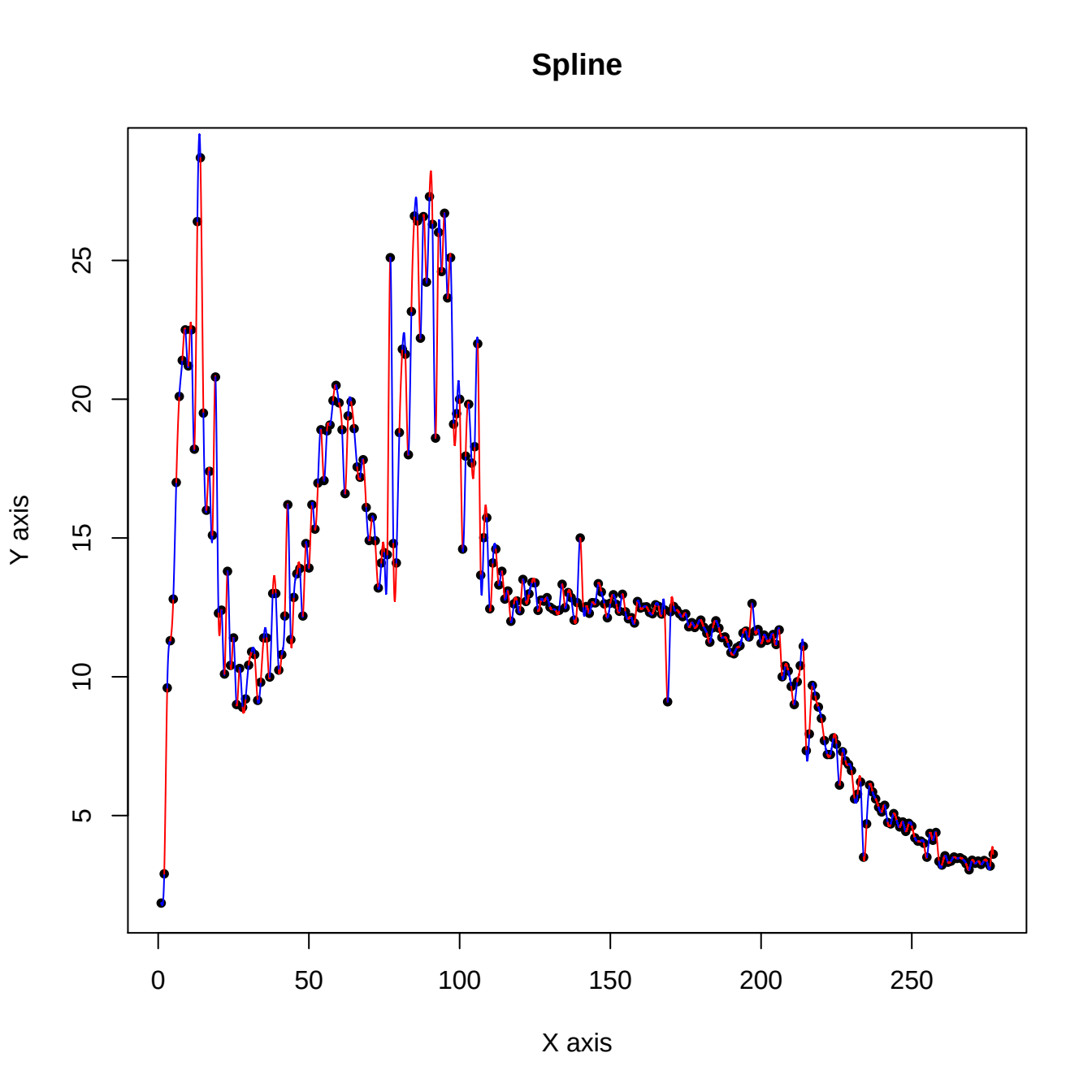

Spline
yy
xx
0.5
1.0
1.5
2.0
2.5
3.0
0.0
0.2
0.4
0.6
0.8
1.0

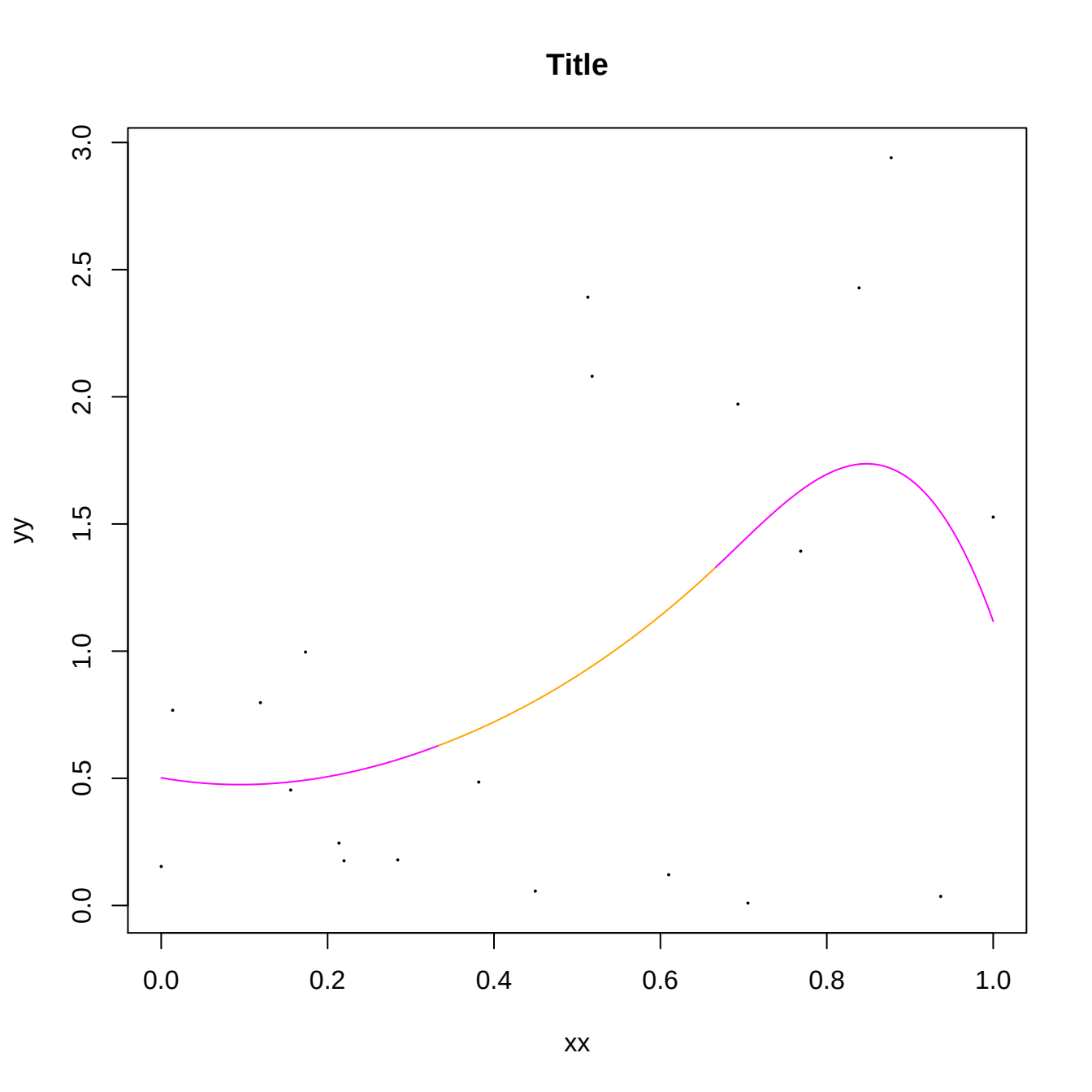

Spline
yy
xx
0.02
0.01
0.00
−0.01
−0.02
0.0
0.2
0.4
0.6
0.8
1.0

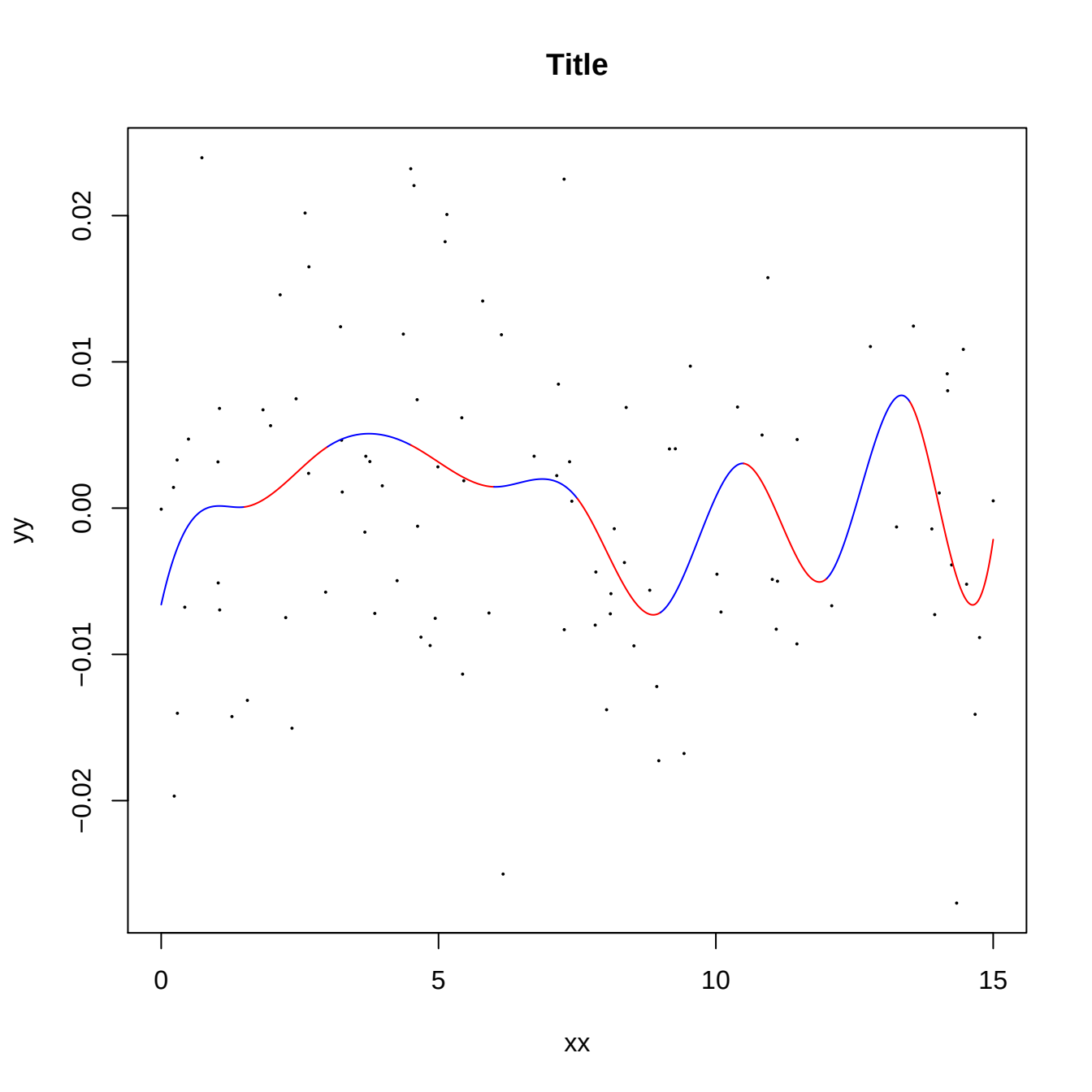

Spline
Y axis
X axis
5
10
15
20
25
0
50
100
150
200
250

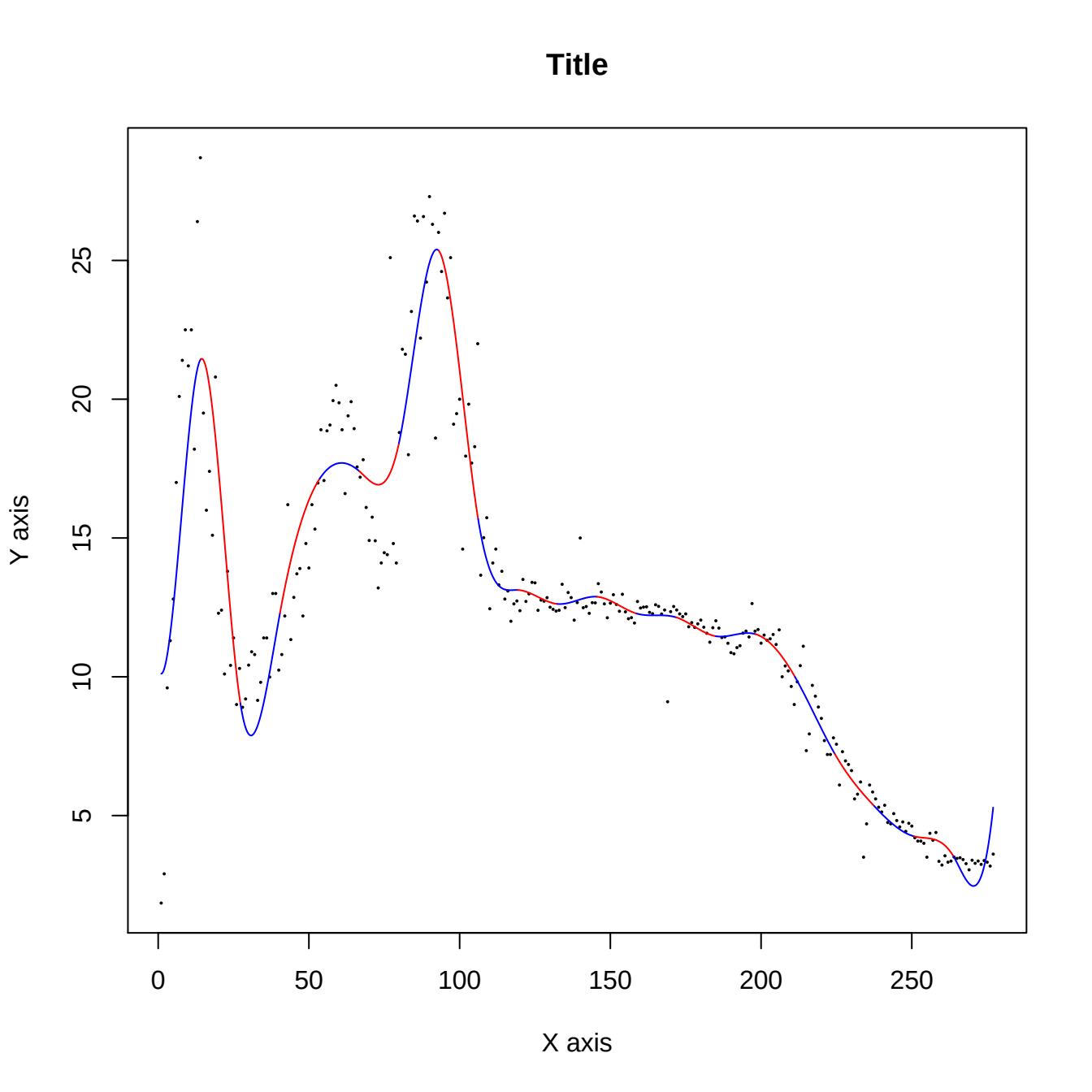

Spline
yy
uu
5
4
3
2
1
0
−1
0
1
2
3
4
5
6
7

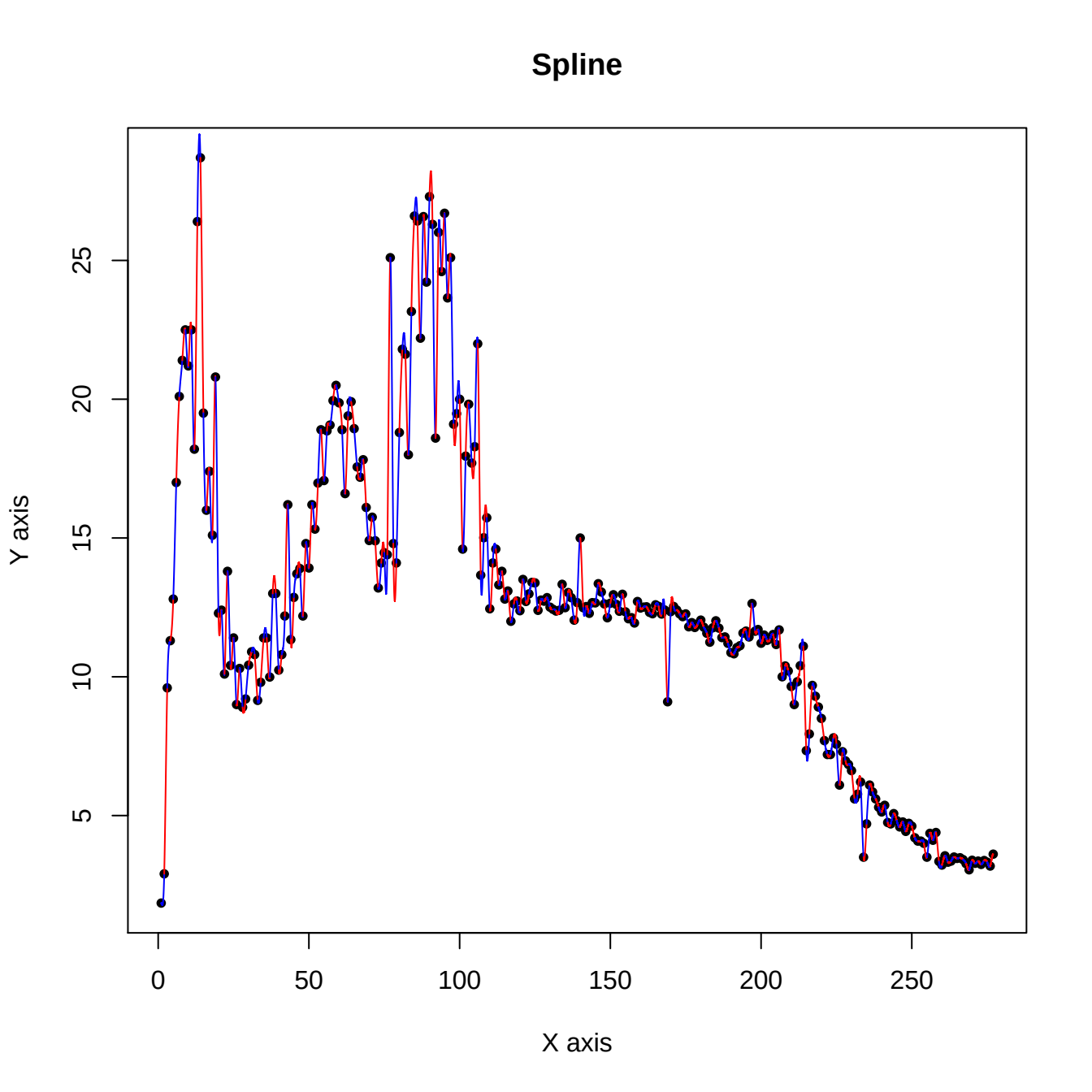

Spline
yy
uu
4
2
0
−2
−4
0
5
10


Spline
Y axis
X axis
5
10
15
20
25
0
50
100
150
200
250


Title
yy
xx
0.0
0.5
1.0
1.5
2.0
2.5
3.0
0.0
0.2
0.4
0.6
0.8
1.0


Title
0.02
0.01
0.00
−0.01
−0.02
yy
0
5
10
15
xx


Title
Y axis
X axis
5
10
15
20
25
0
50
100
150
200
250


Spline
Y axis
X axis
5
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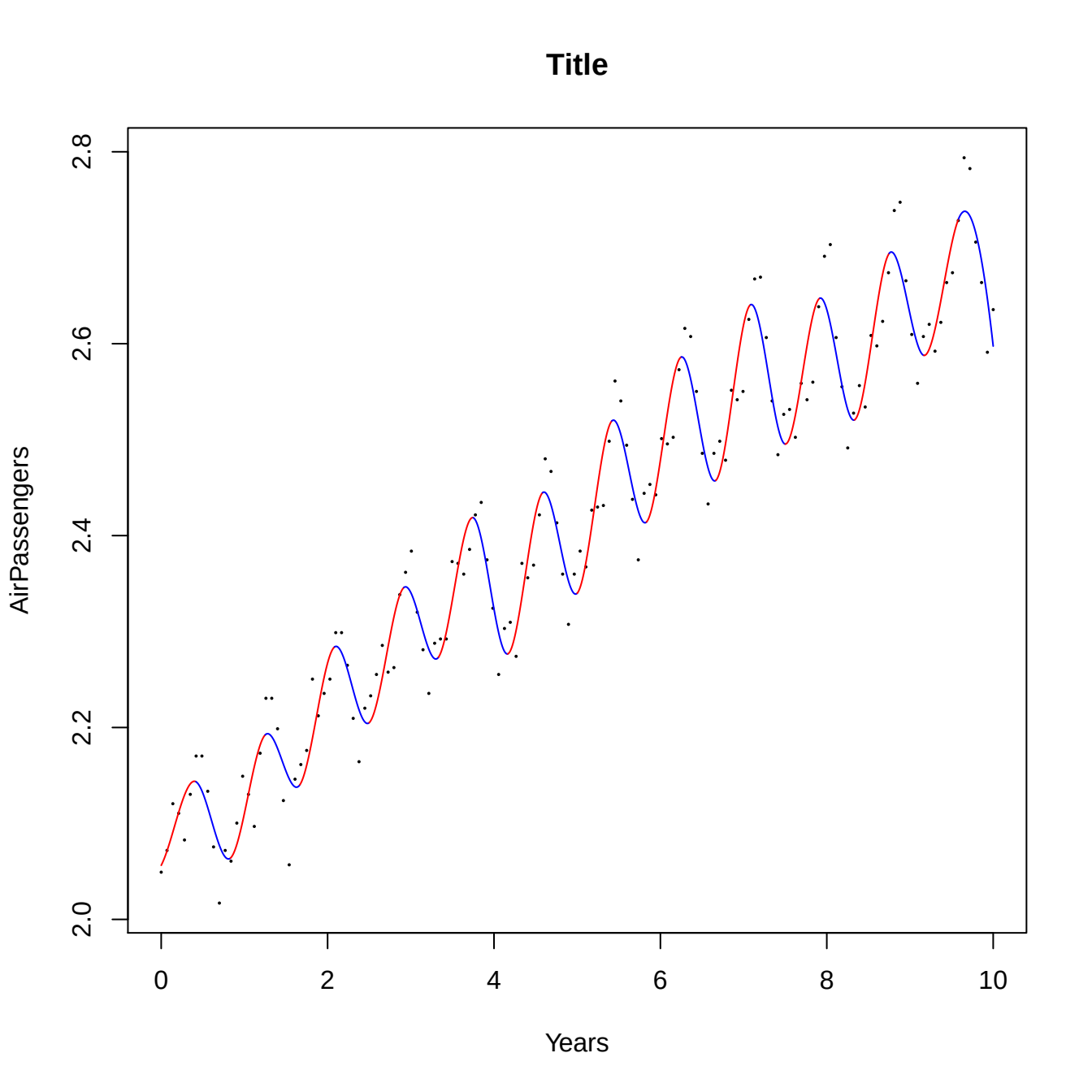
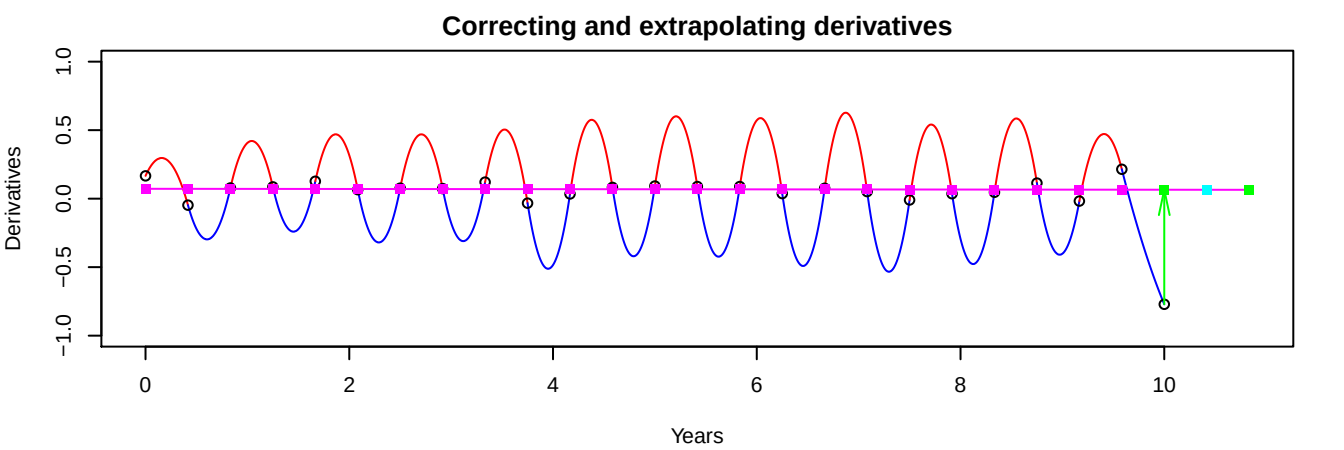

Title
AirPassengers
Years
2.0
2.2
2.4
2.6
2.8
0
2
4
6
8
10


Correcting and extrapolating derivatives
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1.0
0.5
0.0
−0.5
−1.0
0
2
4
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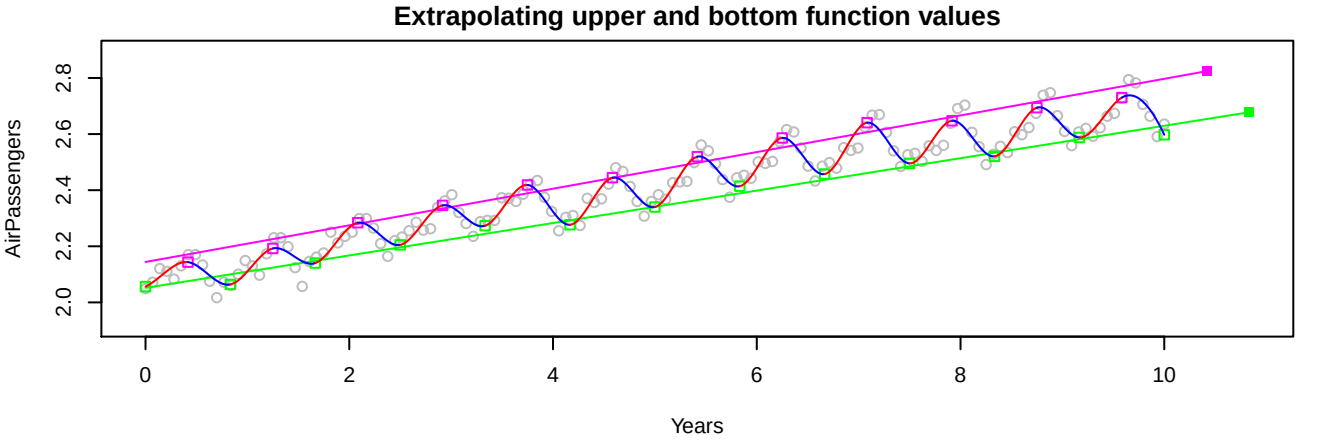
8
10
Years


Extrapolating upper and bottom function values
AirPassengers
2.8
2.6
2.4
2.2
2.0
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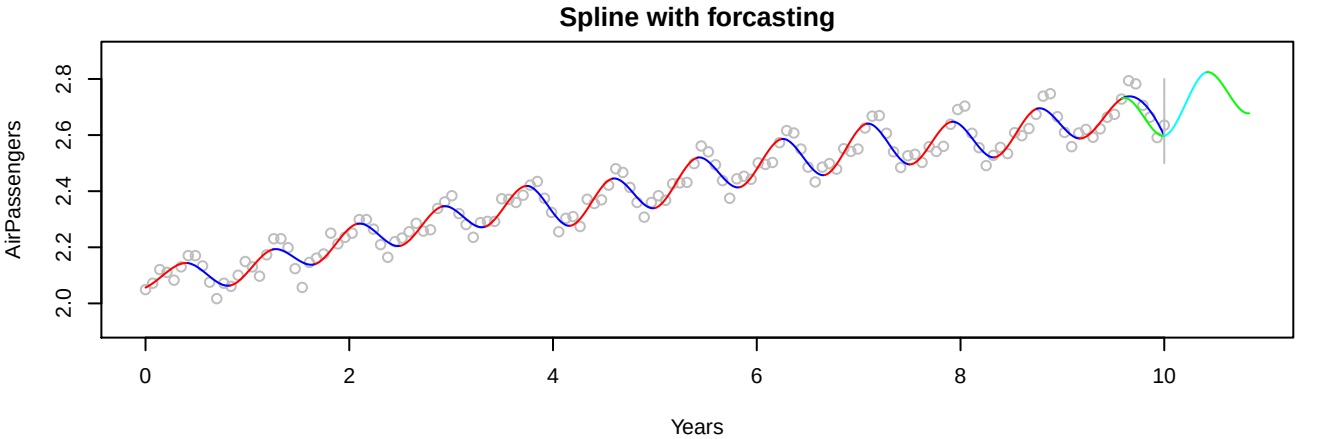
10
Years


Spline with forcasting
AirPassengers
2.8
2.6
2.4
2.2
2.0
0
2
4
6
8
10
Years