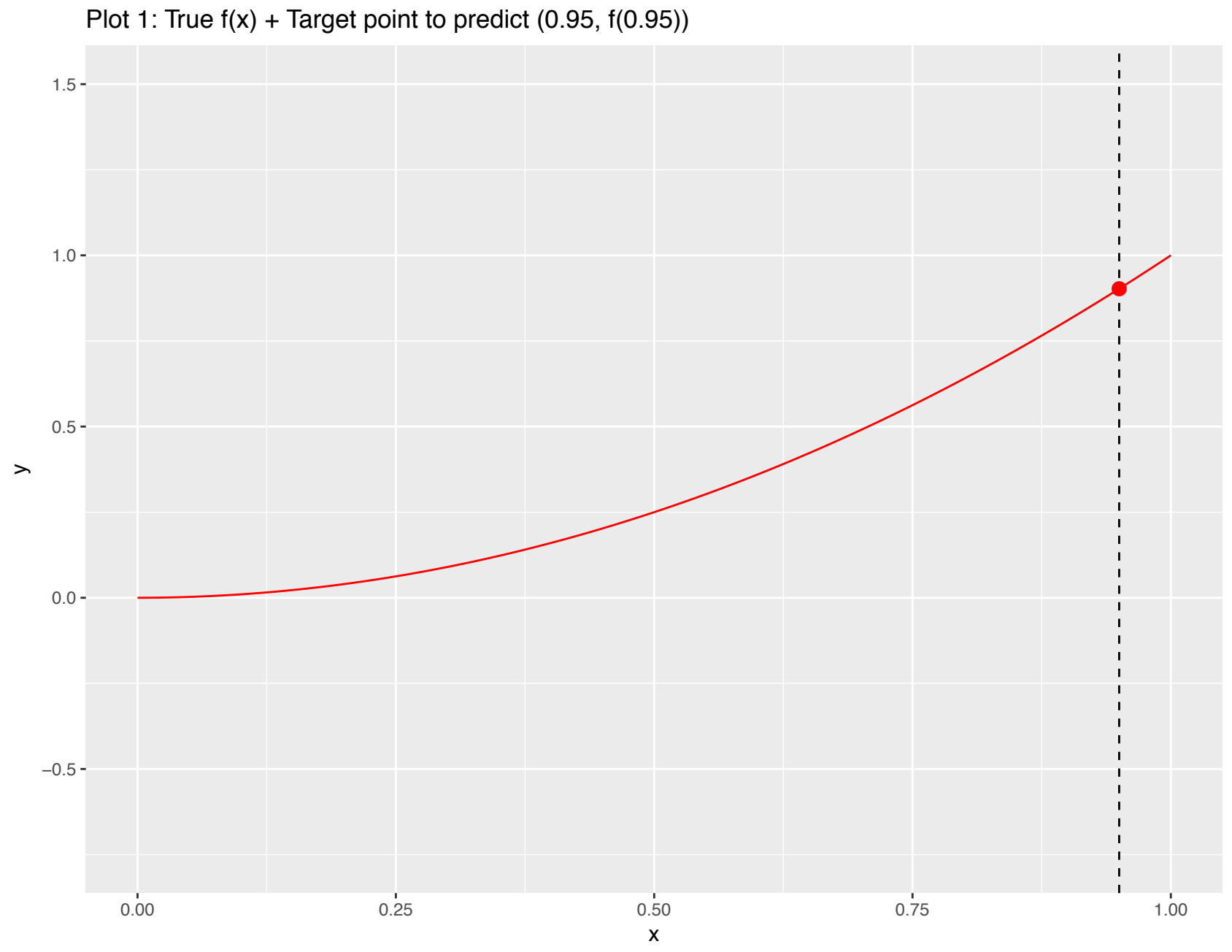
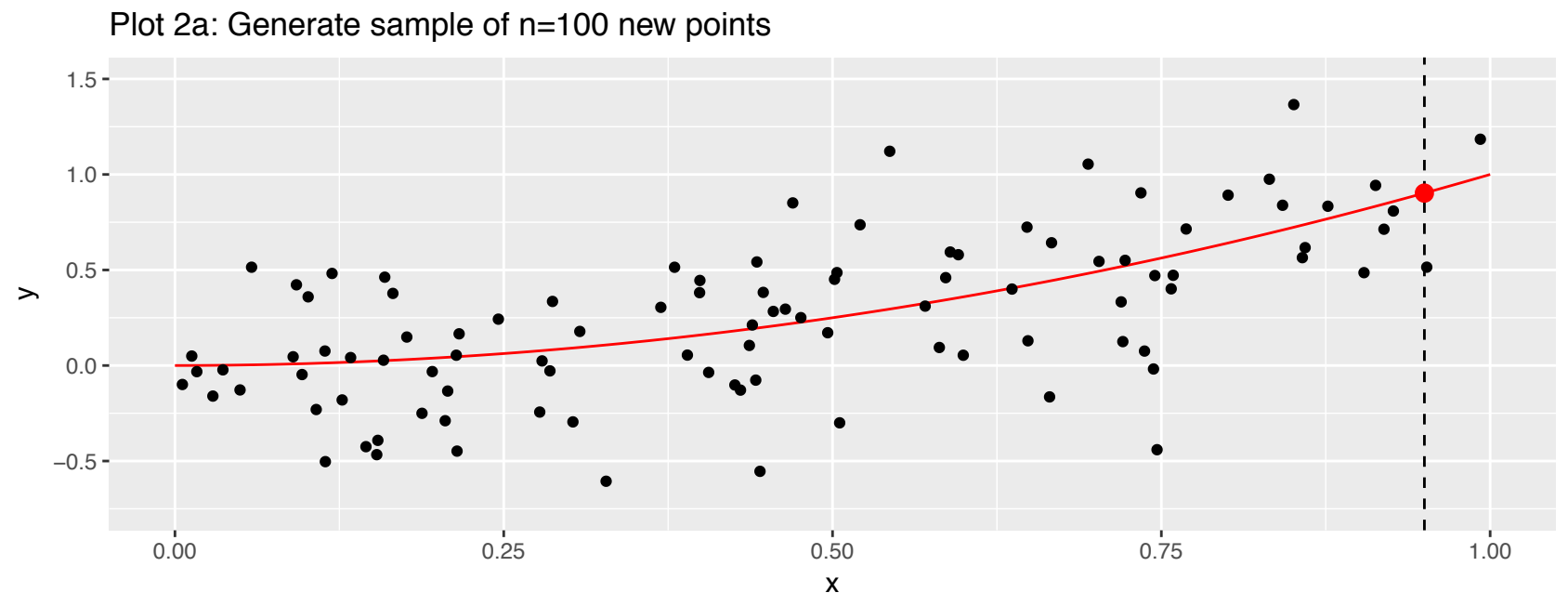
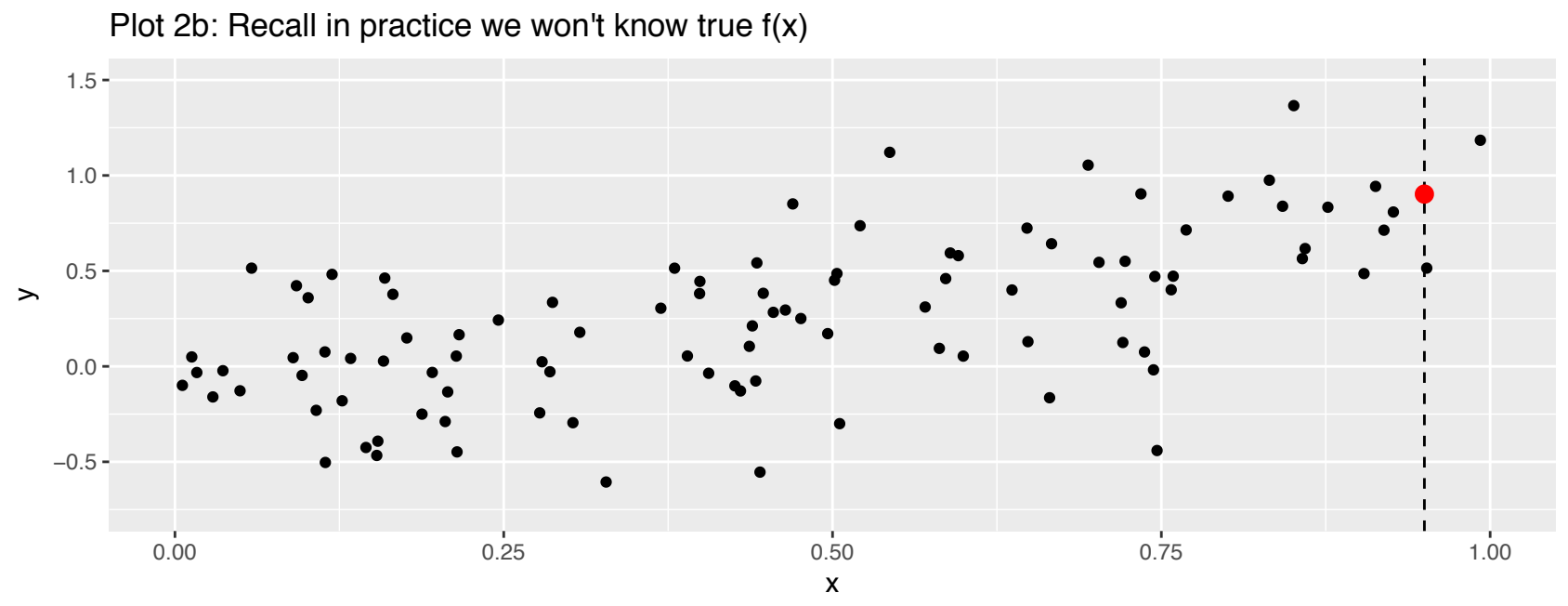
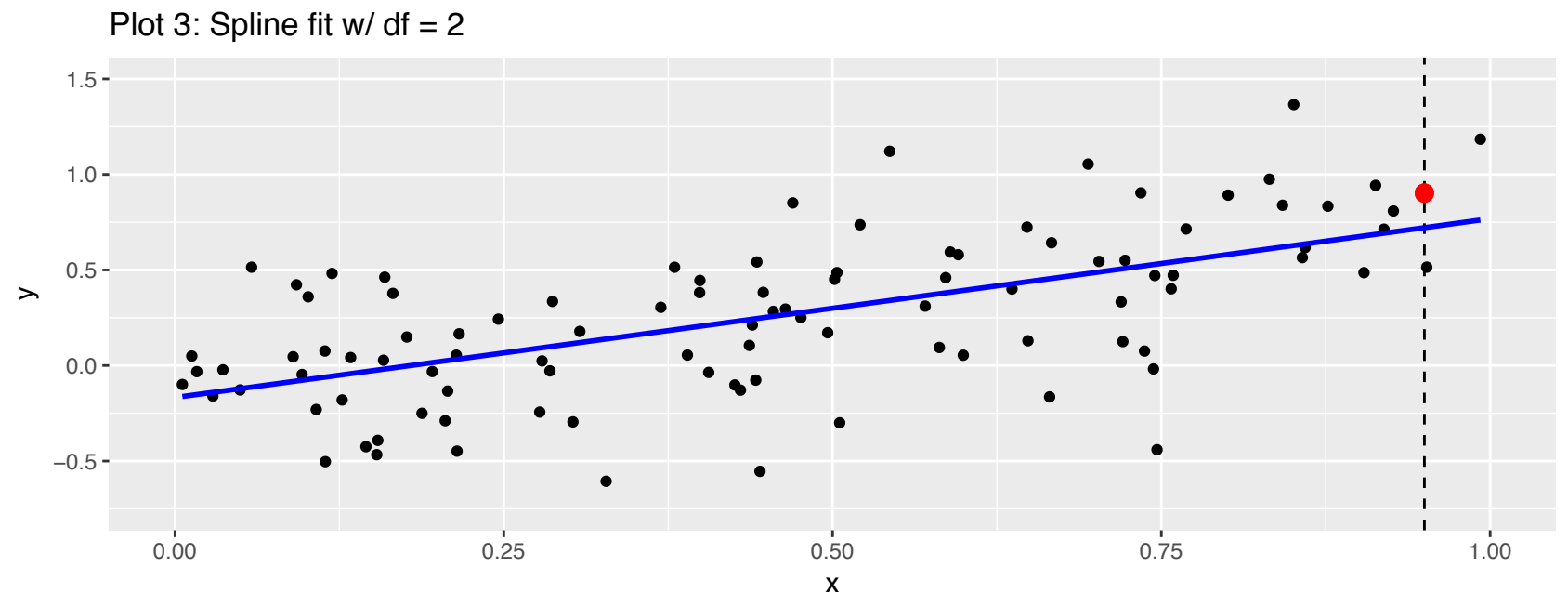
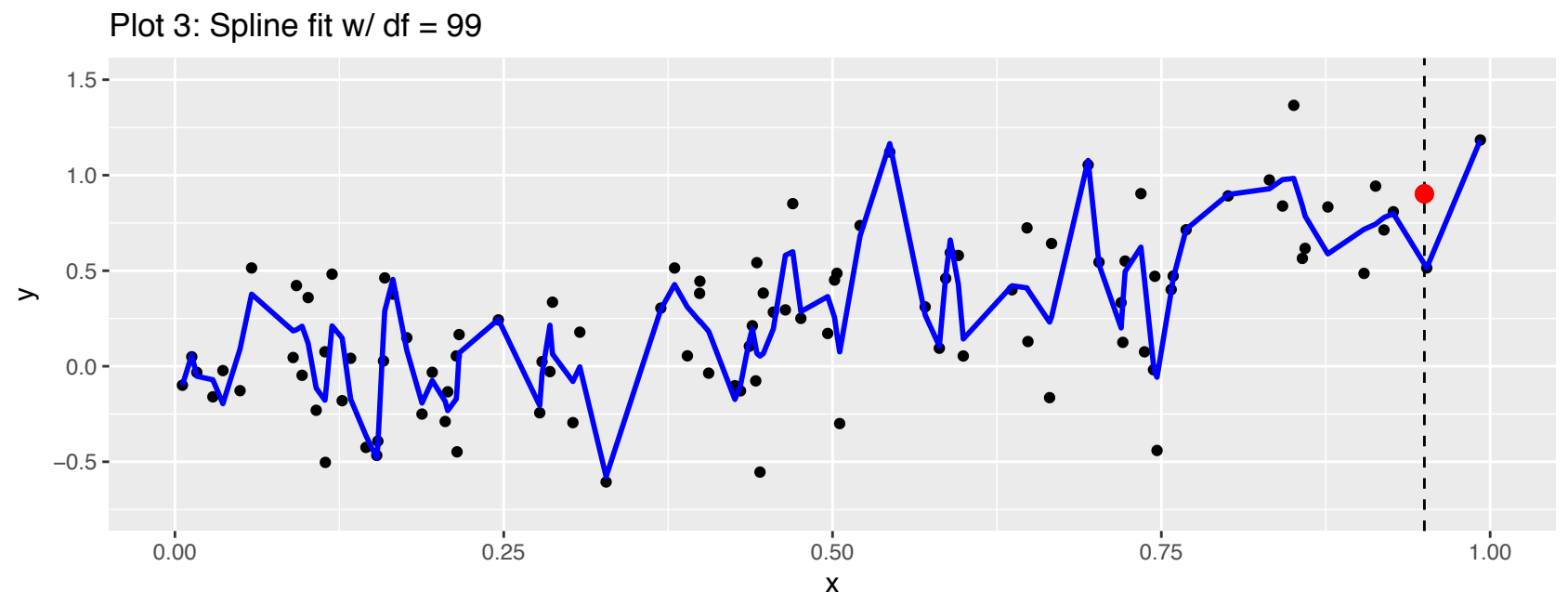

Plot 1: True f(x) + Target point to predict (0.95, f(0.95))
1.5
1.0
0.5
0.0
−0.5
y
0.00
0.25
0.50
0.75
1.00
x

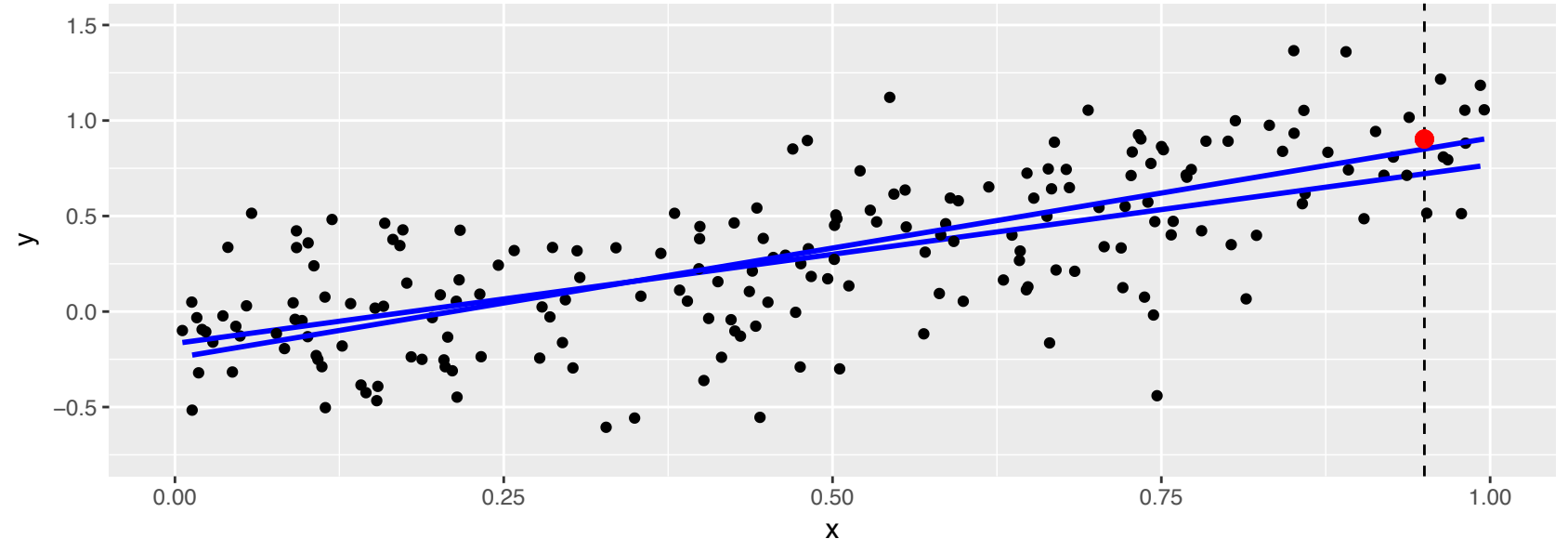

Plot 2a: Generate sample of n=100 new points
1.5
1.0
0.5
0.0
−0.5
y
0.00
0.25
0.50
0.75
1.00
x


Plot 2b: Recall in practice we won't know true f(x)
1.5
1.0
0.5
0.0
−0.5
y
0.00
0.25
0.50
0.75
1.00
x

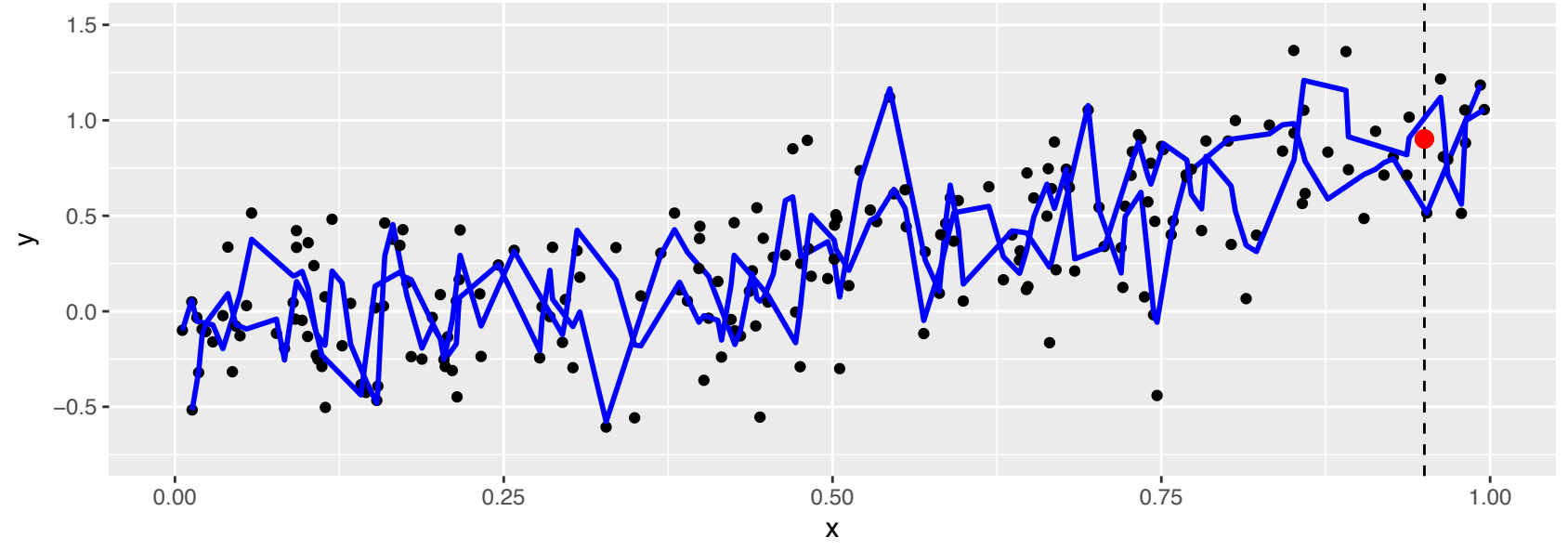

Plot 3: Spline fit w/ df = 2
1.5
1.0
0.5
0.0
−0.5
y
0.00
0.25
0.50
0.75
1.00
x

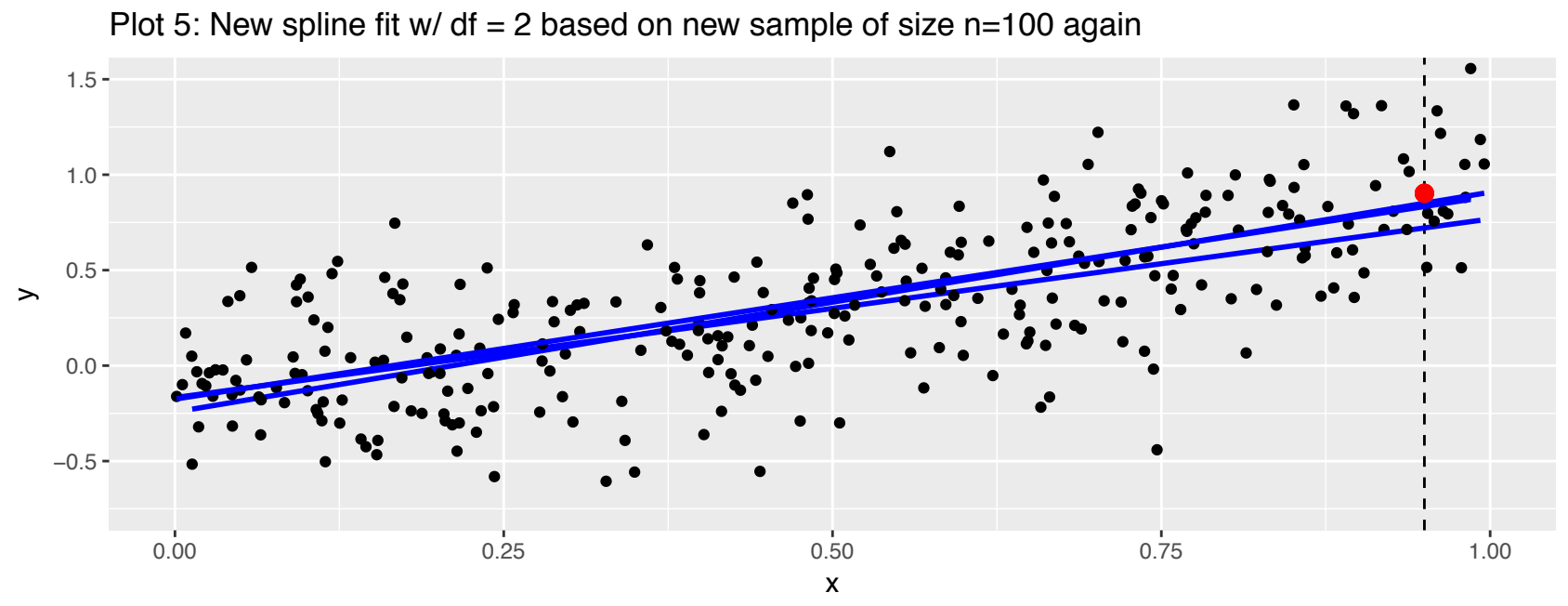

Plot 3: Spline fit w/ df = 99
1.5
1.0
0.5
0.0
−0.5
y
0.00
0.25
0.50
0.75
1.00
x

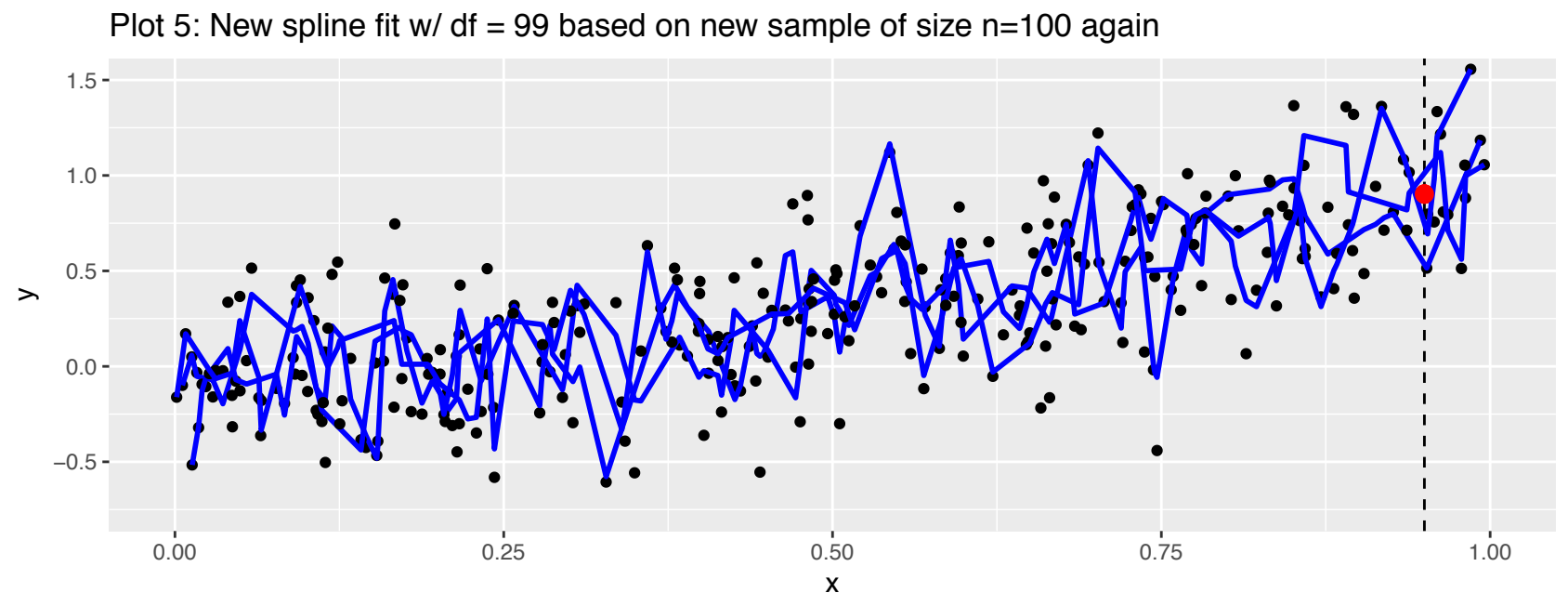
Plot 4: New spline fit w/ df = 2 based on new sample of size n=100

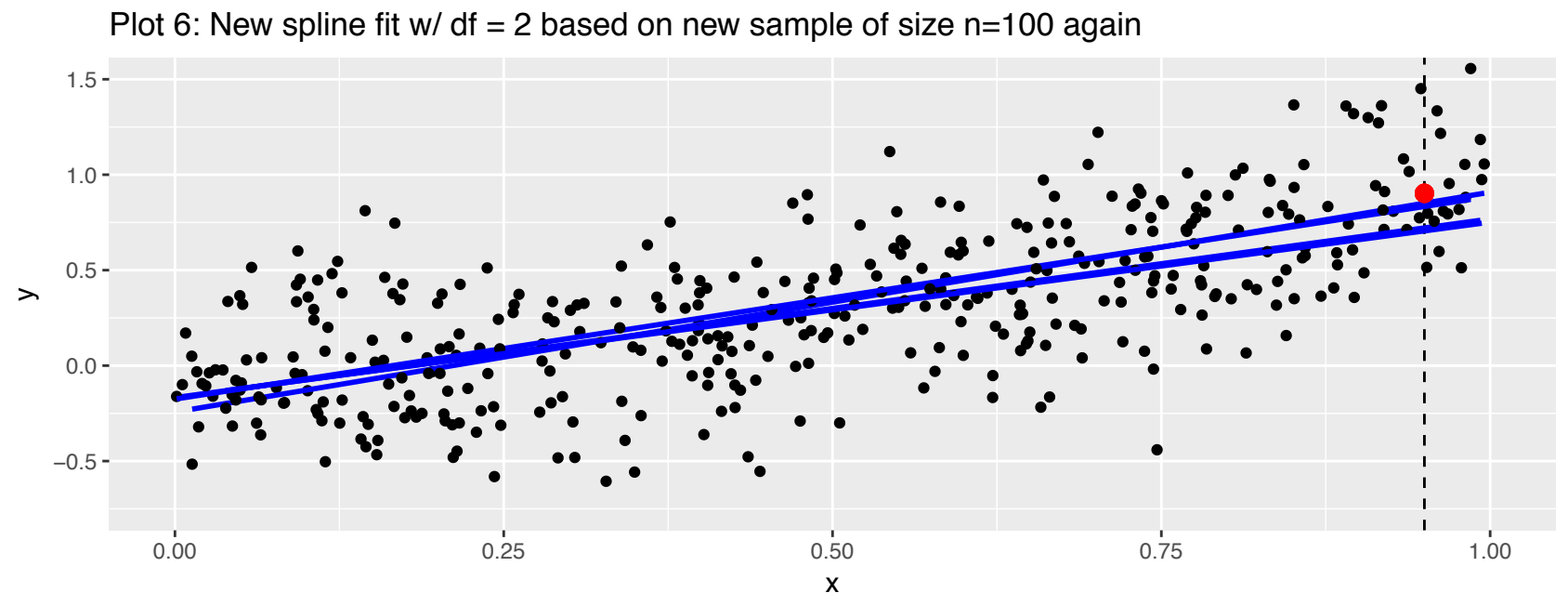


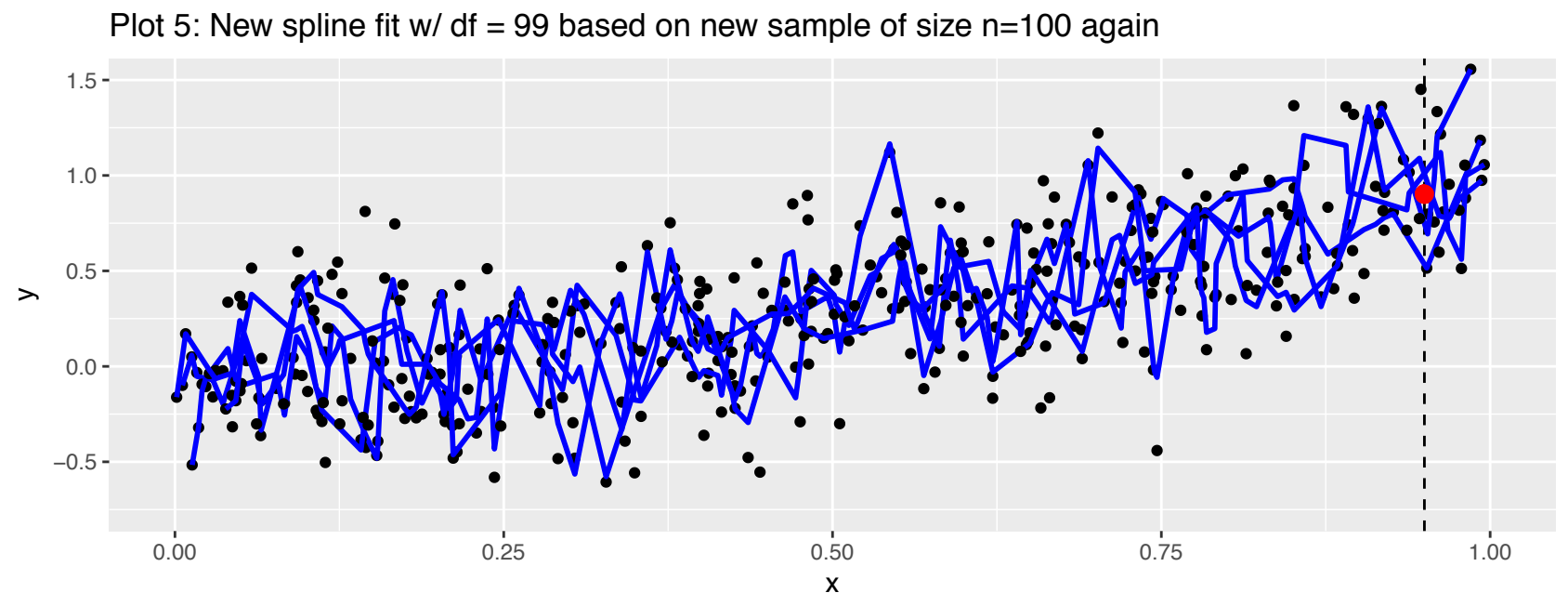
Plot 4: New spline fit w/ df = 99 based on new sample of size n=100

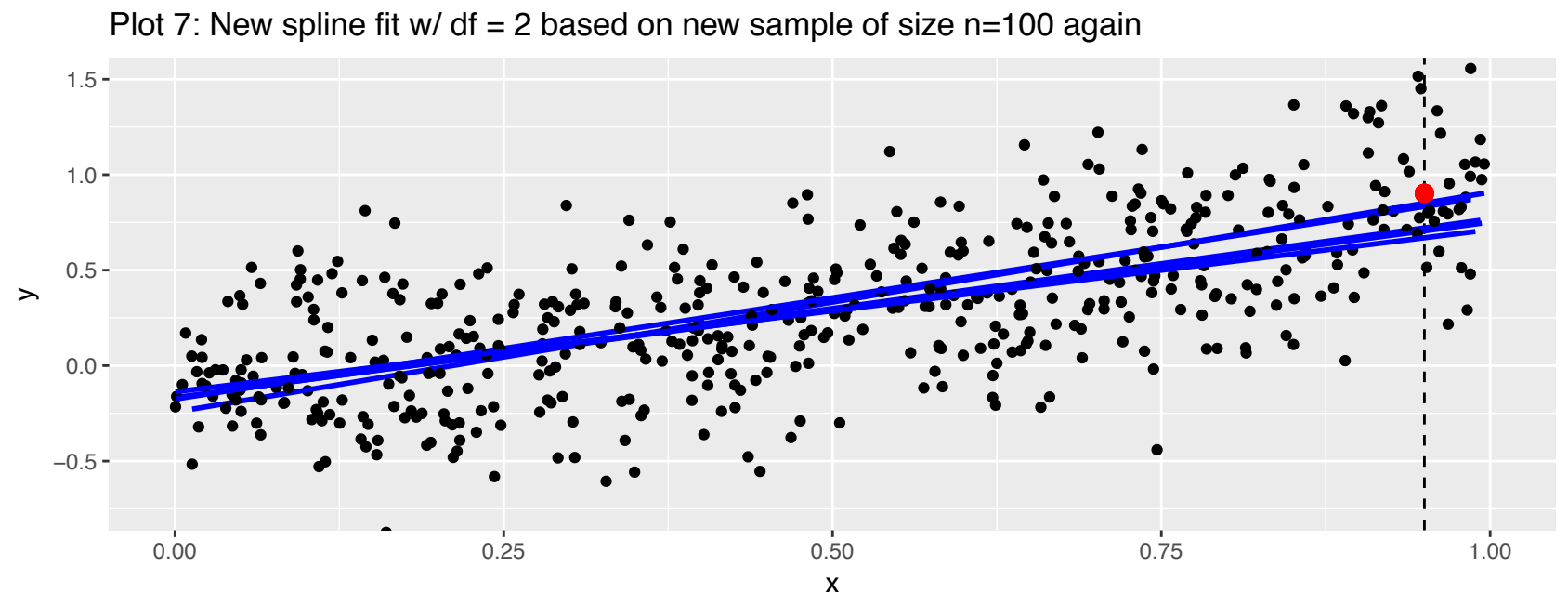


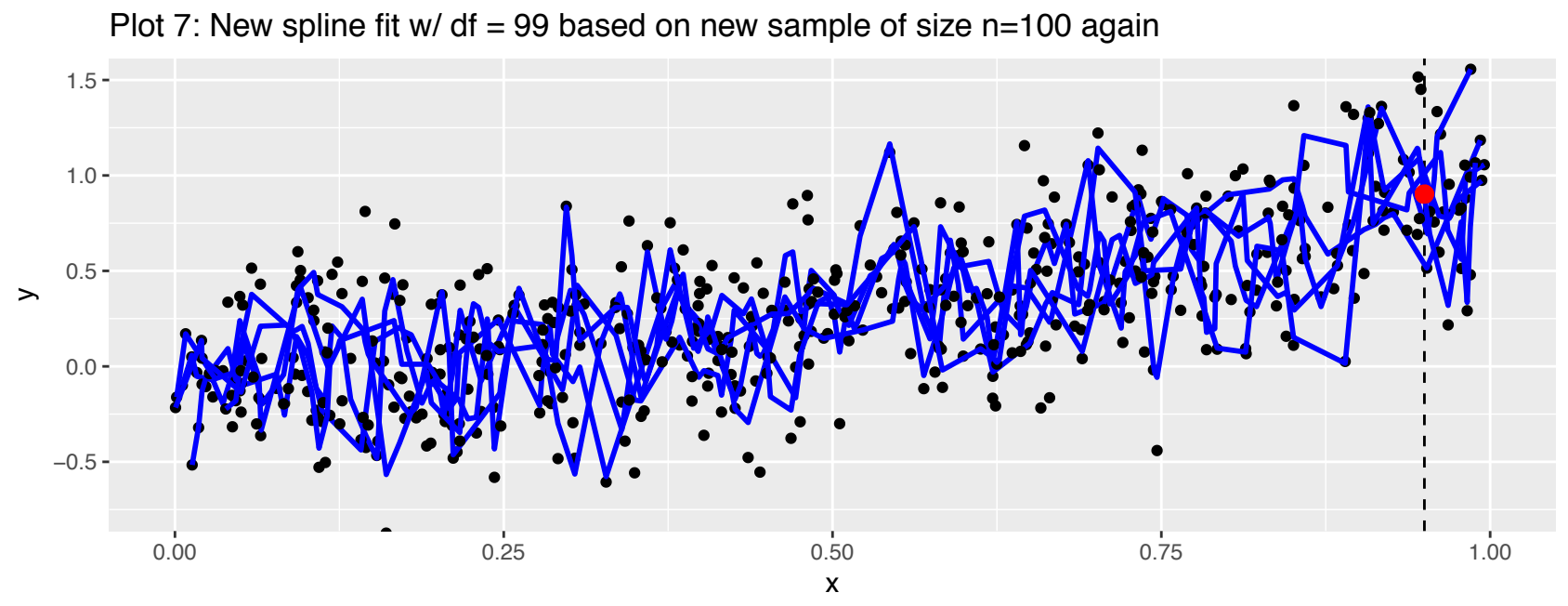

Plot 5: New spline fit w/ df = 2 based on new sample of size n=100 again
1.5
1.0
0.5
0.0
−0.5
y
0.00
0.25
0.50
0.75
1.00
x

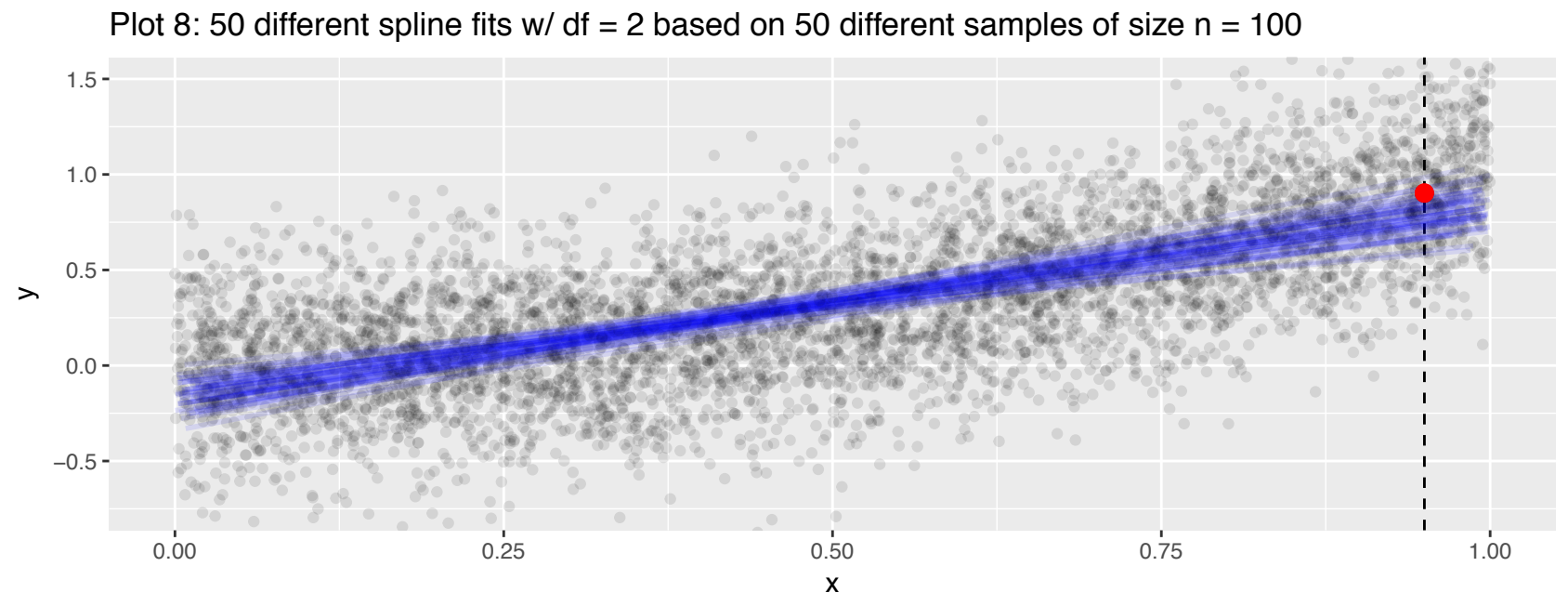

Plot 5: New spline fit w/ df = 99 based on new sample of size n=100 again
1.5
1.0
0.5
0.0
−0.5
y
0.00
0.25
0.50
0.75
1.00
x

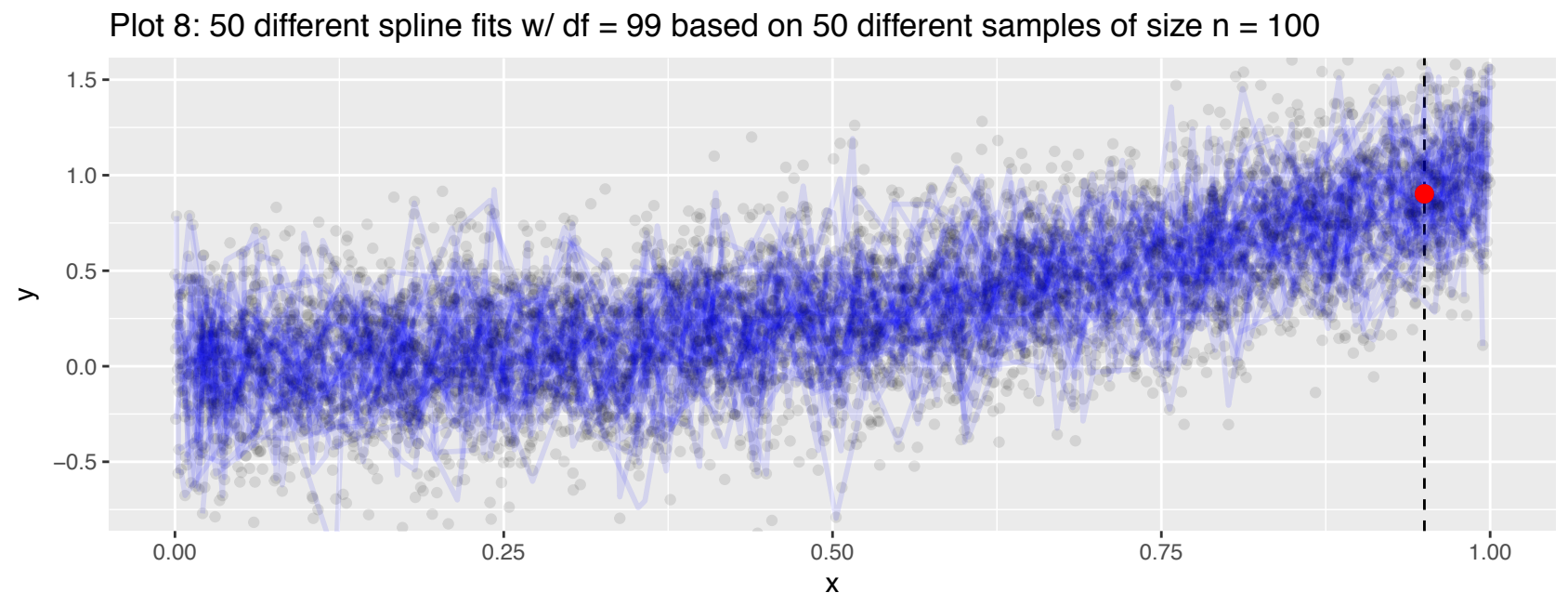

Plot 6: New spline fit w/ df = 2 based on new sample of size n=100 again
1.5
1.0
0.5
0.0
−0.5
y
0.00
0.25
0.50
0.75
1.00
x


Plot 5: New spline fit w/ df = 99 based on new sample of size n=100 again
1.5
1.0
0.5
0.0
−0.5
y
0.00
0.25
0.50
0.75
1.00
x


Plot 7: New spline fit w/ df = 2 based on new sample of size n=100 again
1.5
1.0
0.5
0.0
−0.5
y
0.00
0.25
0.50
0.75
1.00
x


Plot 7: New spline fit w/ df = 99 based on new sample of size n=100 again
1.5
1.0
0.5
0.0
−0.5
y
0.00
0.25
0.50
0.75
1.00
x


Plot 8: 50 different spline fits w/ df = 2 based on 50 different samples of size n = 100
1.5
1.0
0.5
0.0
−0.5
y
0.00
0.25
0.50
0.75
1.00
x


Plot 8: 50 different spline fits w/ df = 99 based on 50 different samples of size n = 100
1.5
1.0
0.5
0.0
−0.5
y
0.00
0.25
0.50
0.75
1.00
x