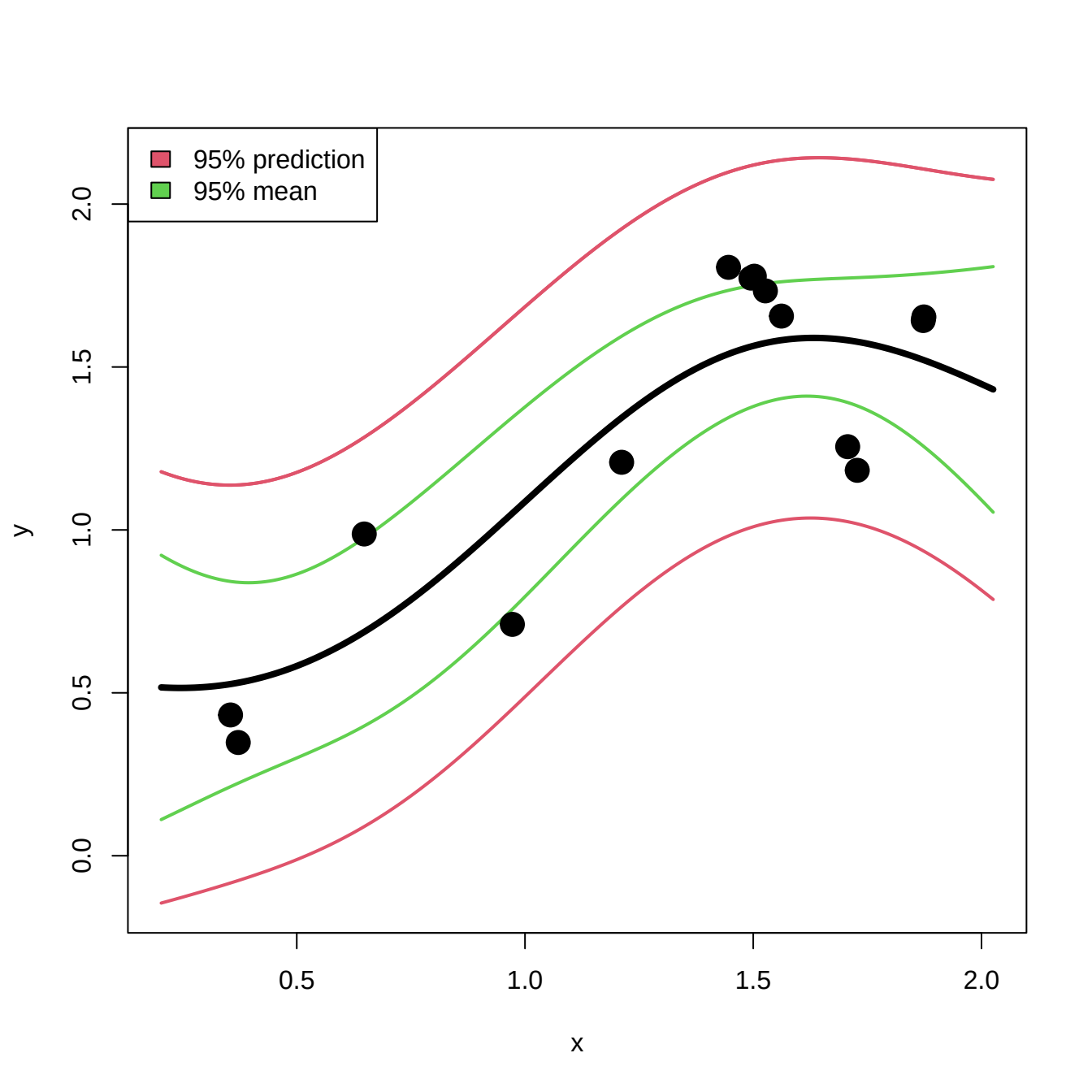
95% prediction
95% mean
y
x
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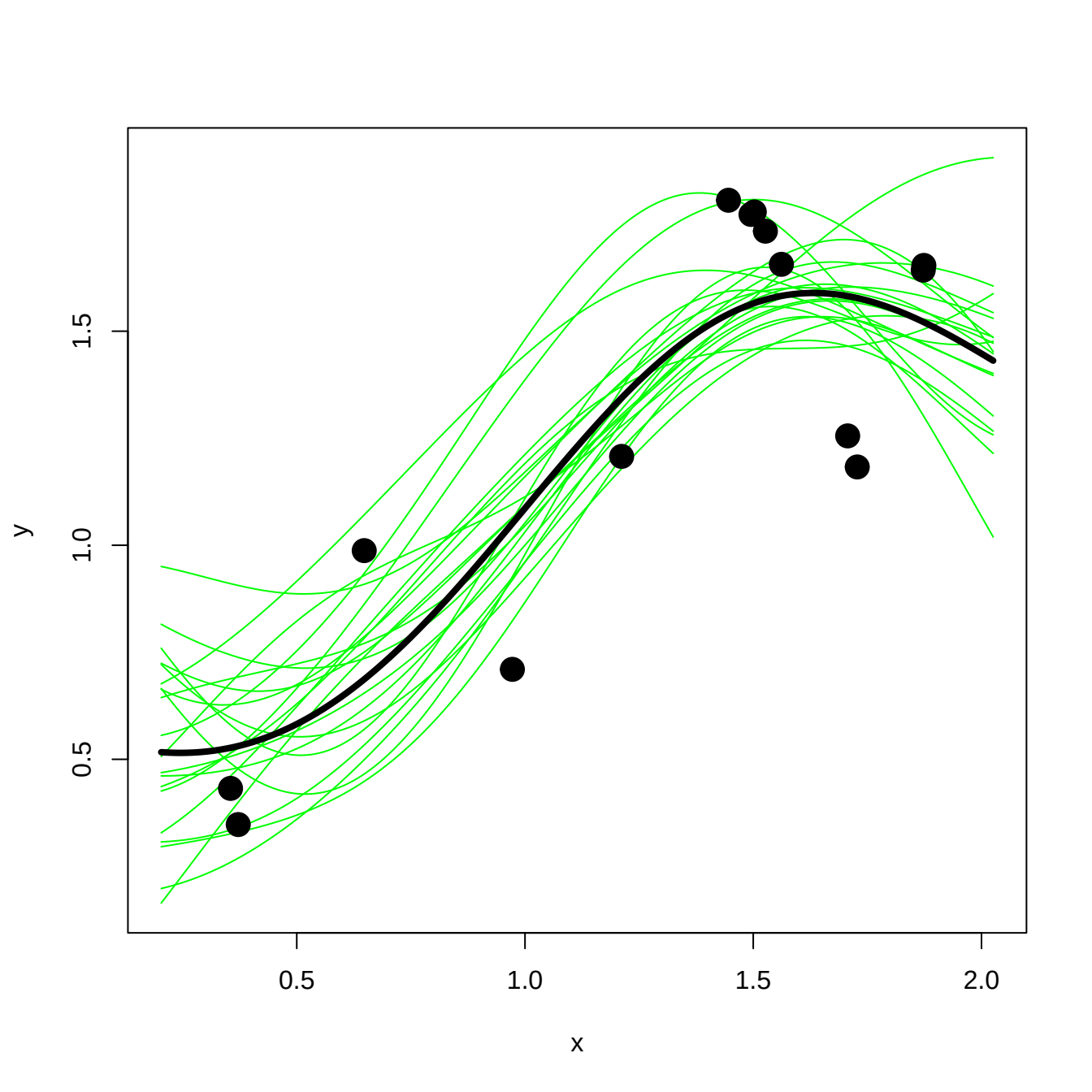
0.5
1.0
1.5
2.0
0.5
1.0
1.5
2.0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1.0
1.5
y
0.5
1.0
1.5
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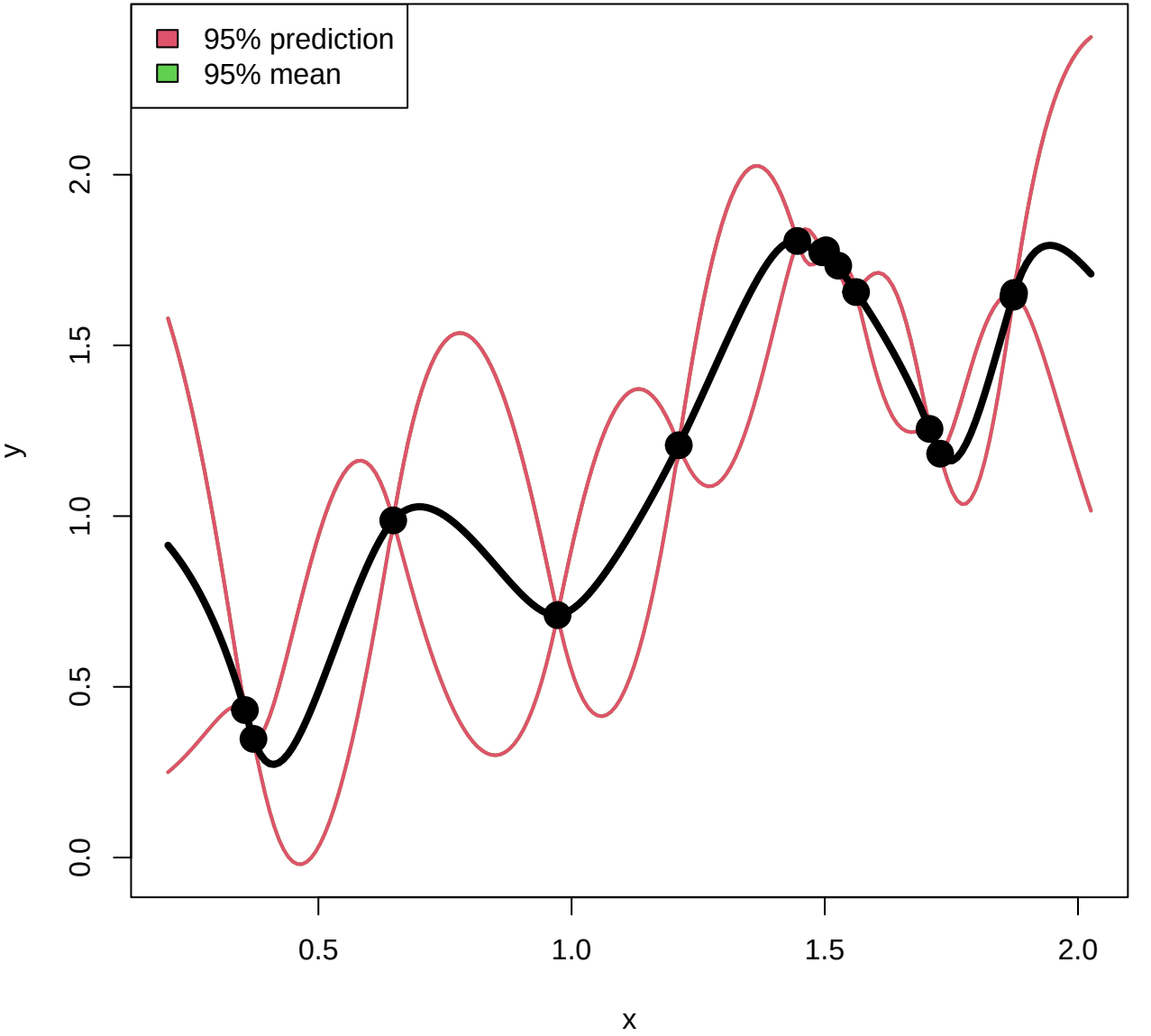
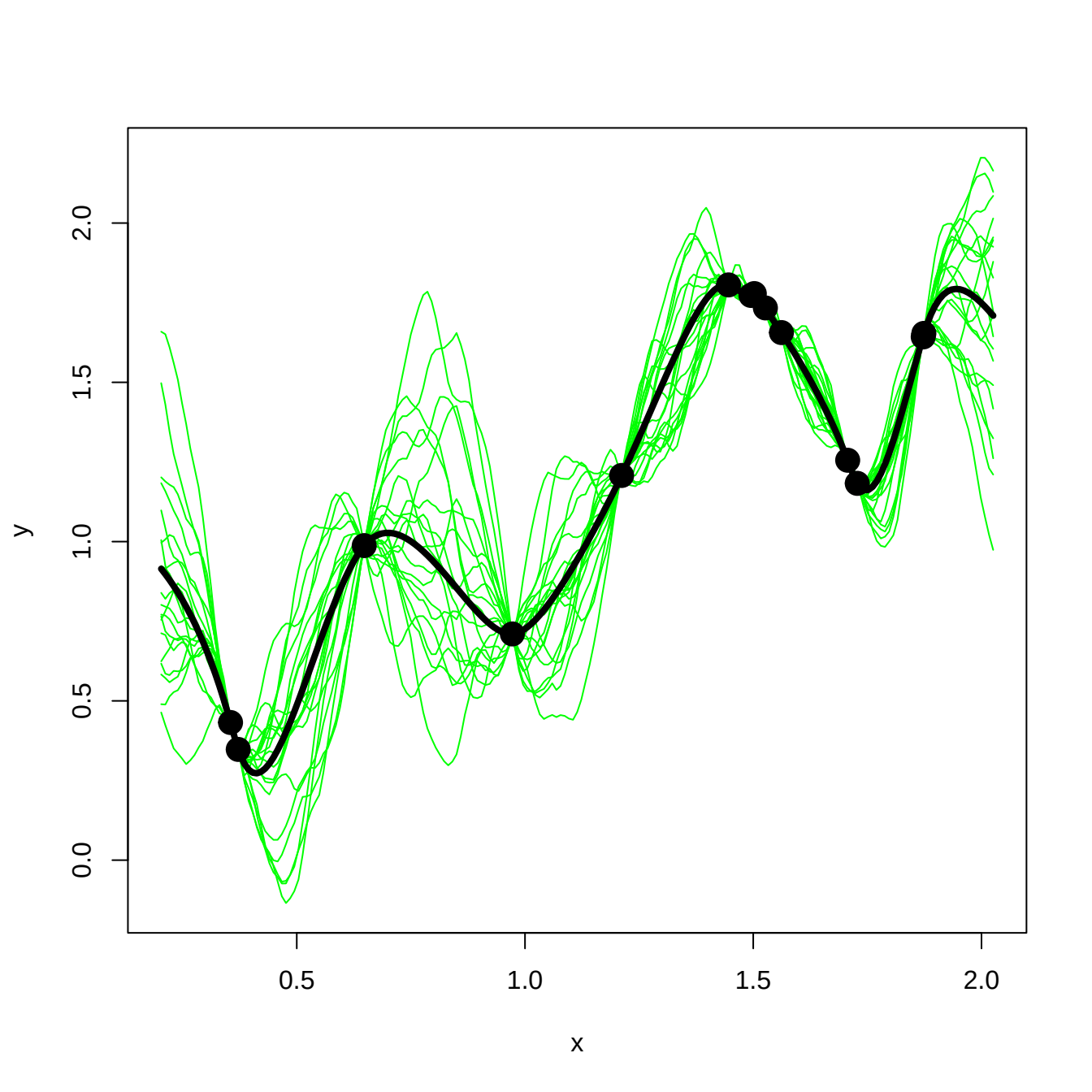
x


95% prediction
95% mean
0.0
0.5
1.0
1.5
2.0
y
0.5
1.0
1.5
2.0
x


y
x
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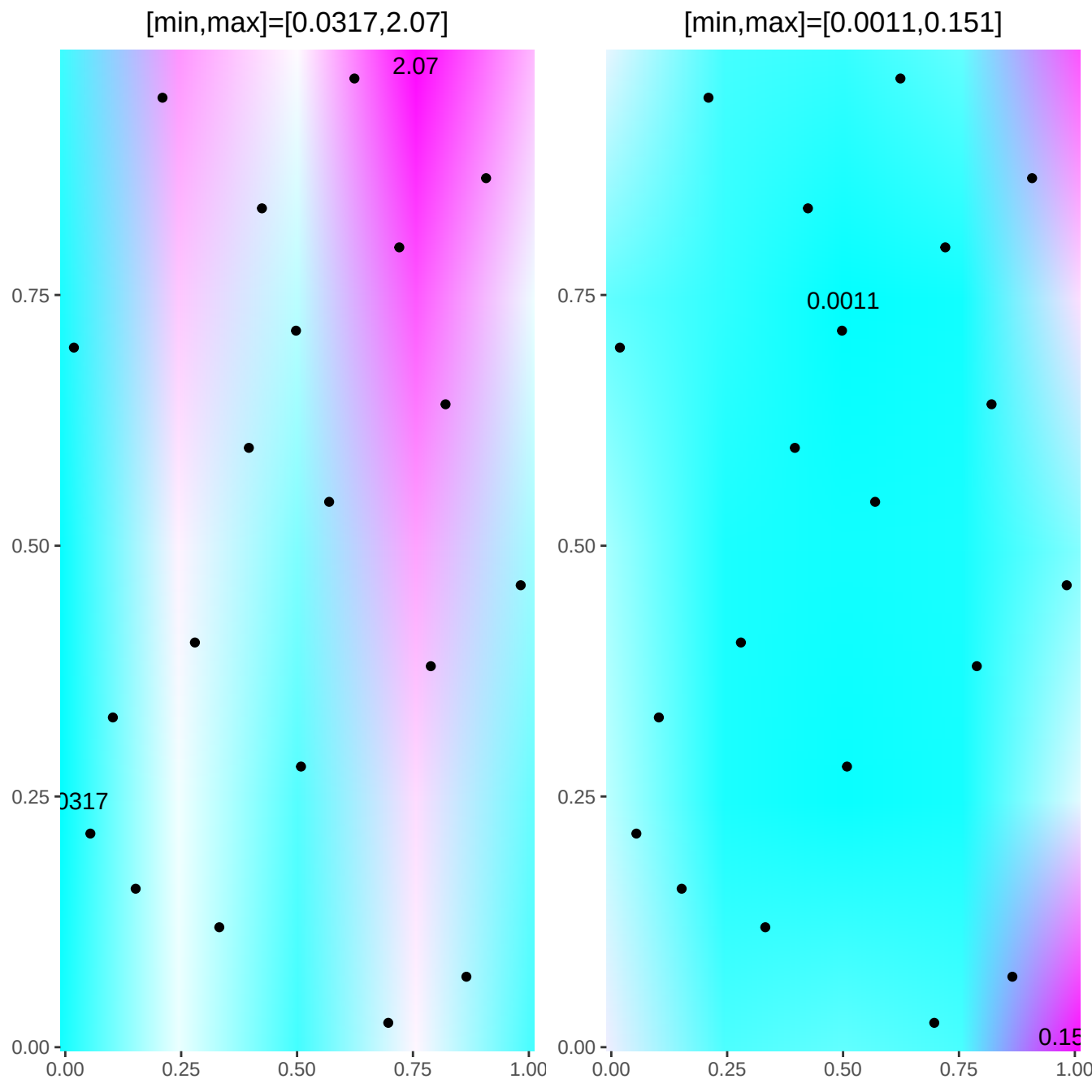
1.0
1.5
2.0
0.5
1.0
1.5
2.0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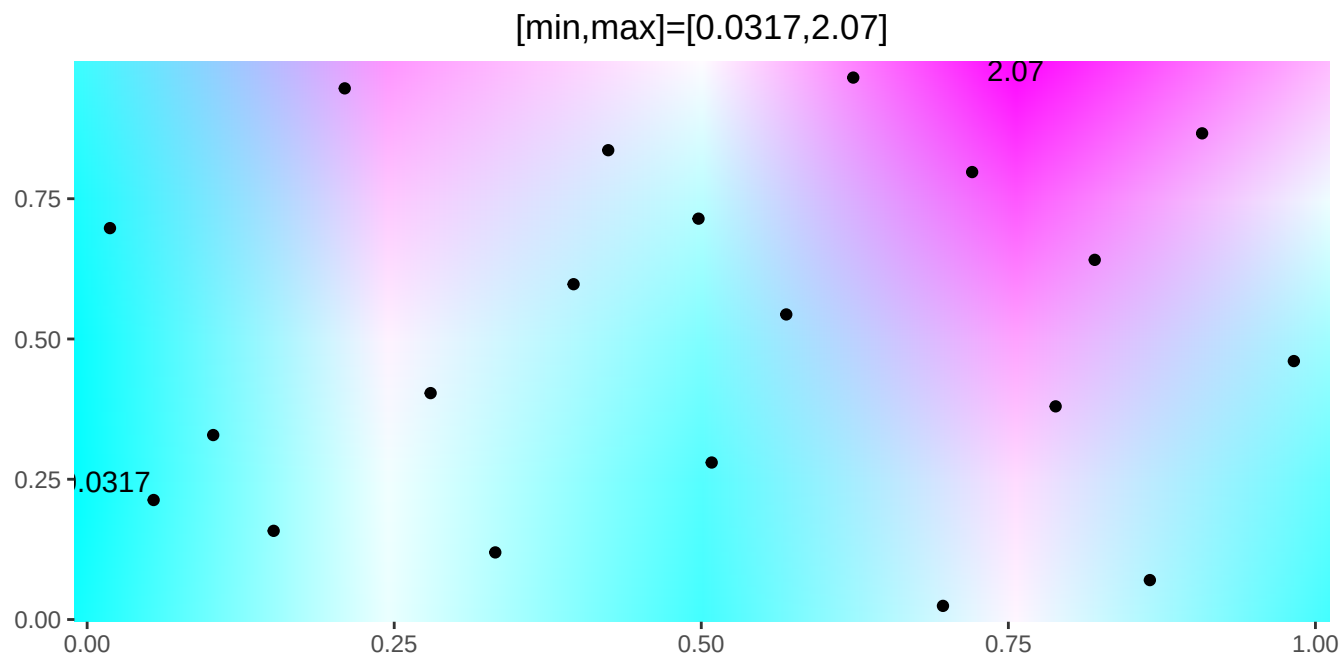
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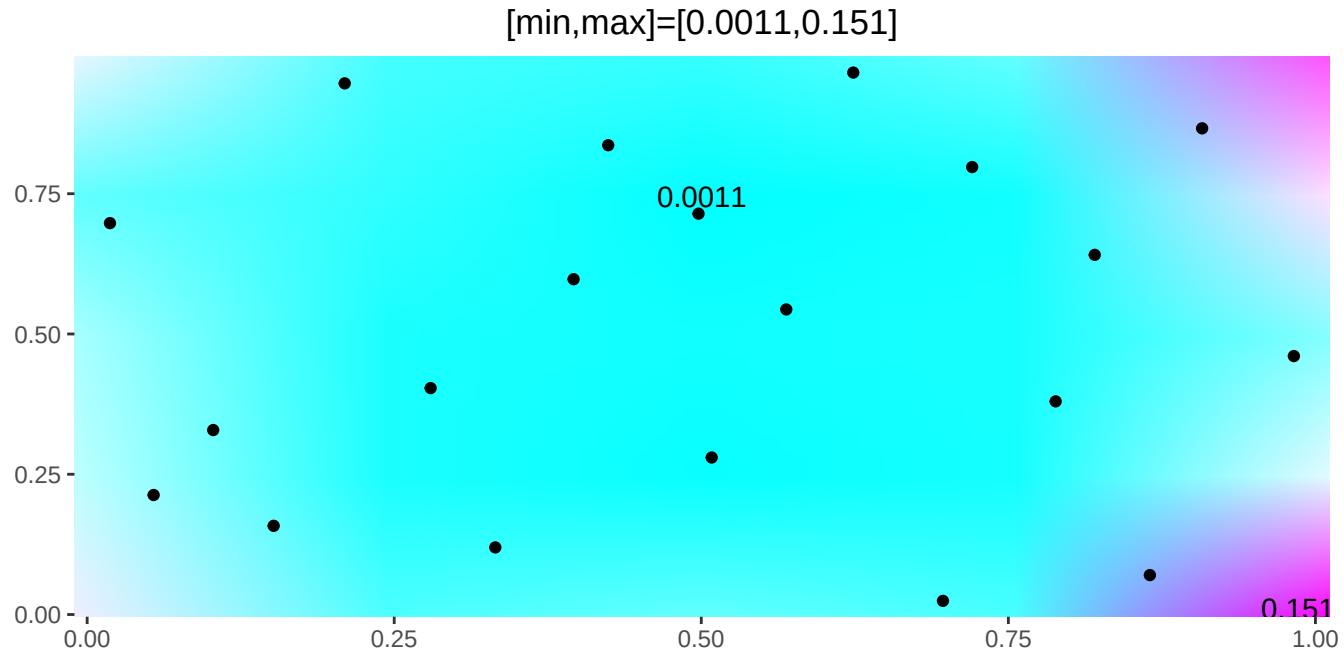
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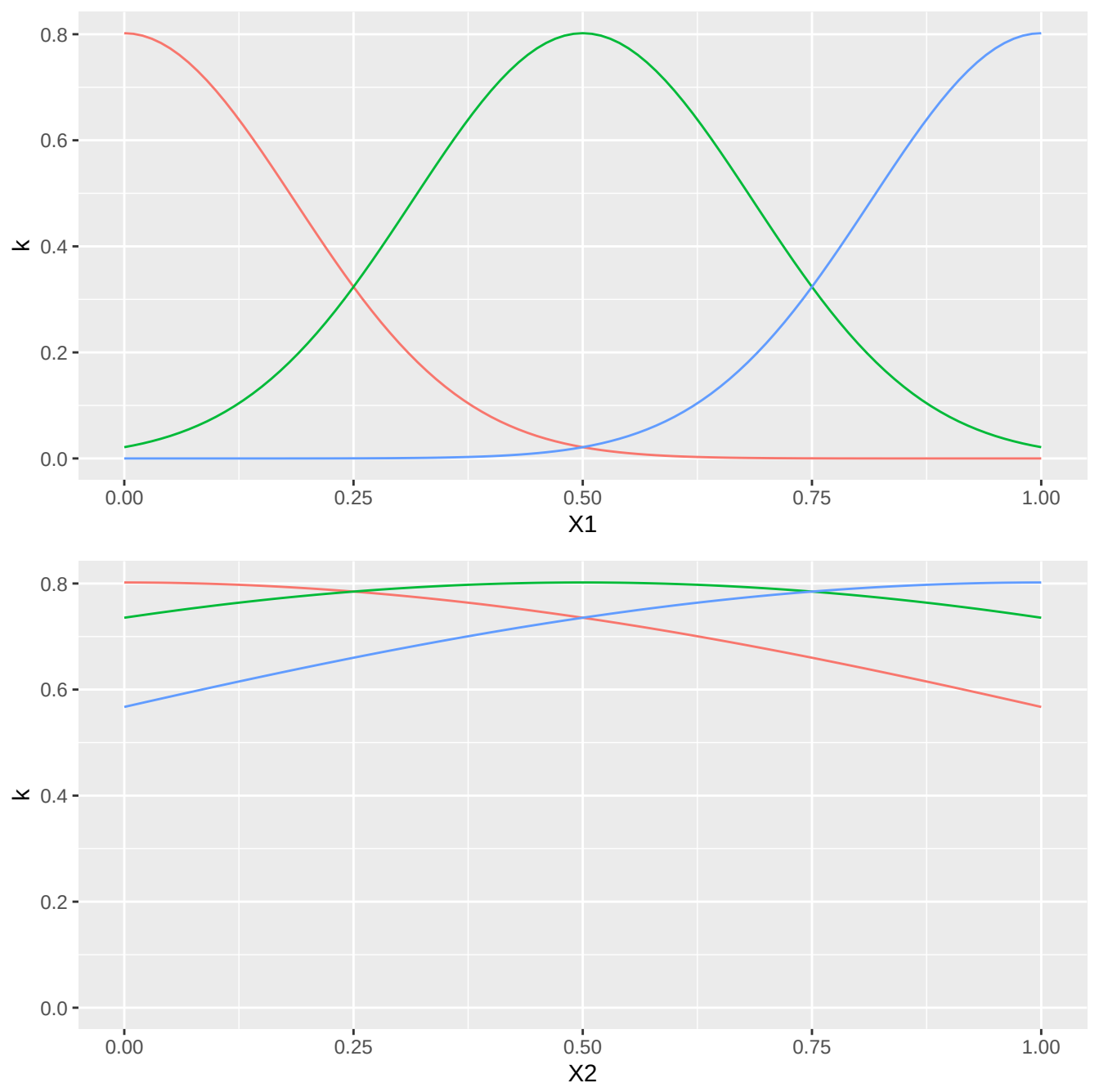
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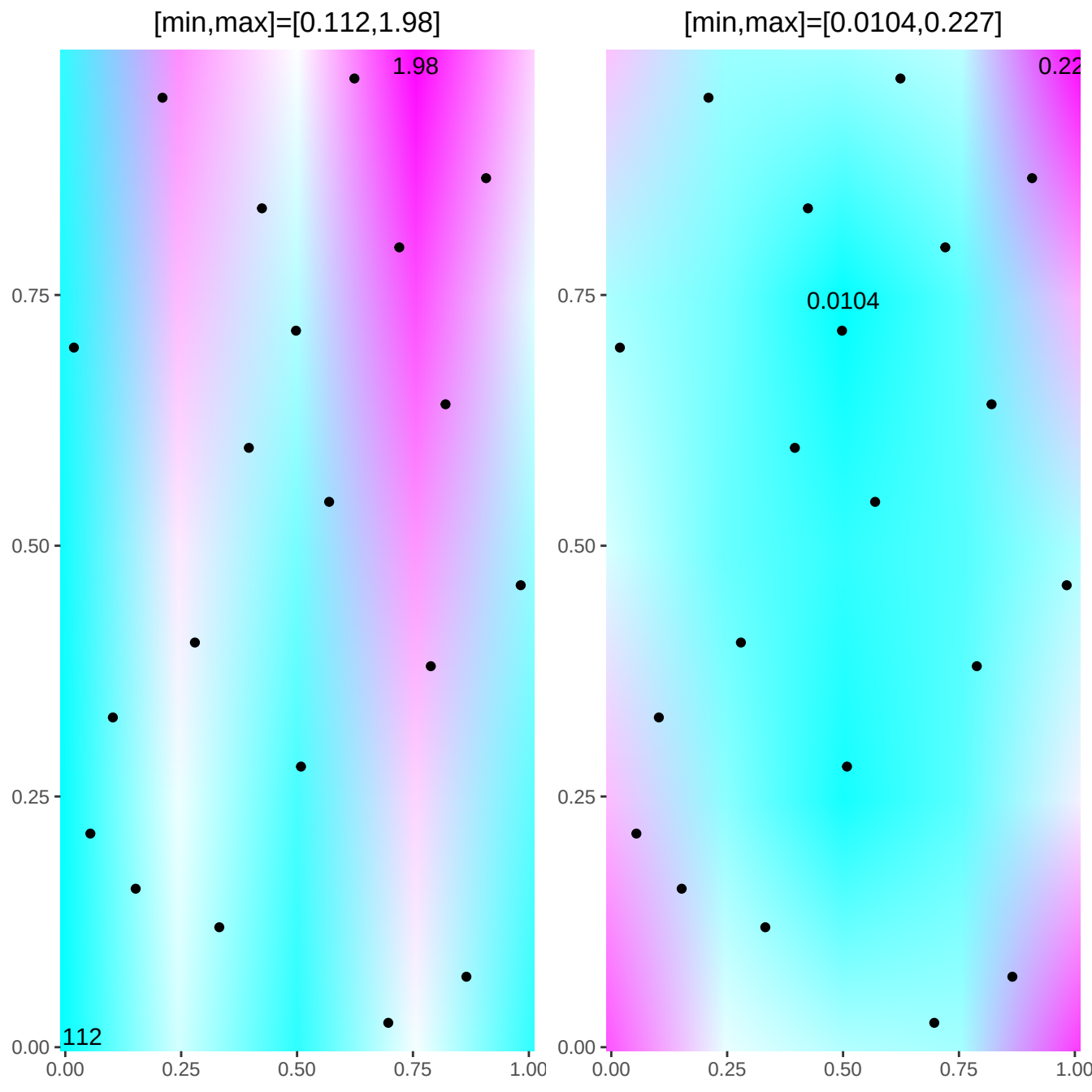
0.6
0.4
0.2
0.0
k
0.00
0.25
0.50
0.75
1.00
X1
0.8
0.6
0.4
0.2
0.0
k
0.00
0.25
0.50
0.75
1.00
X2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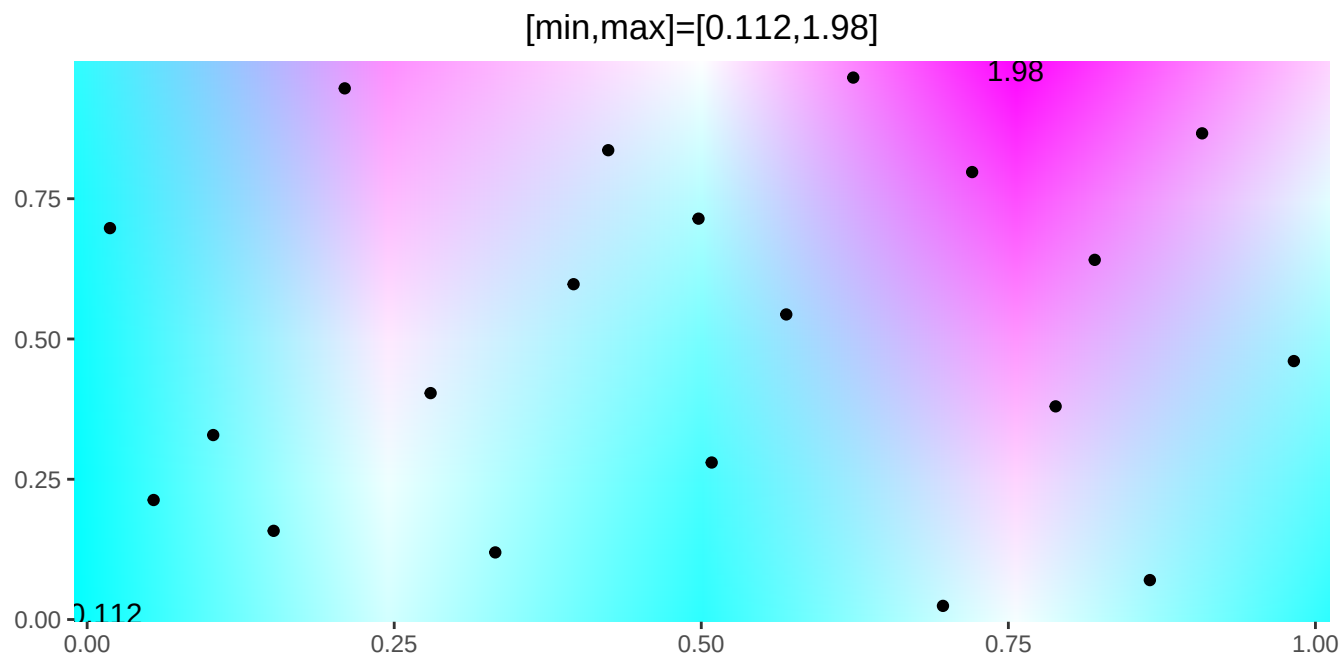
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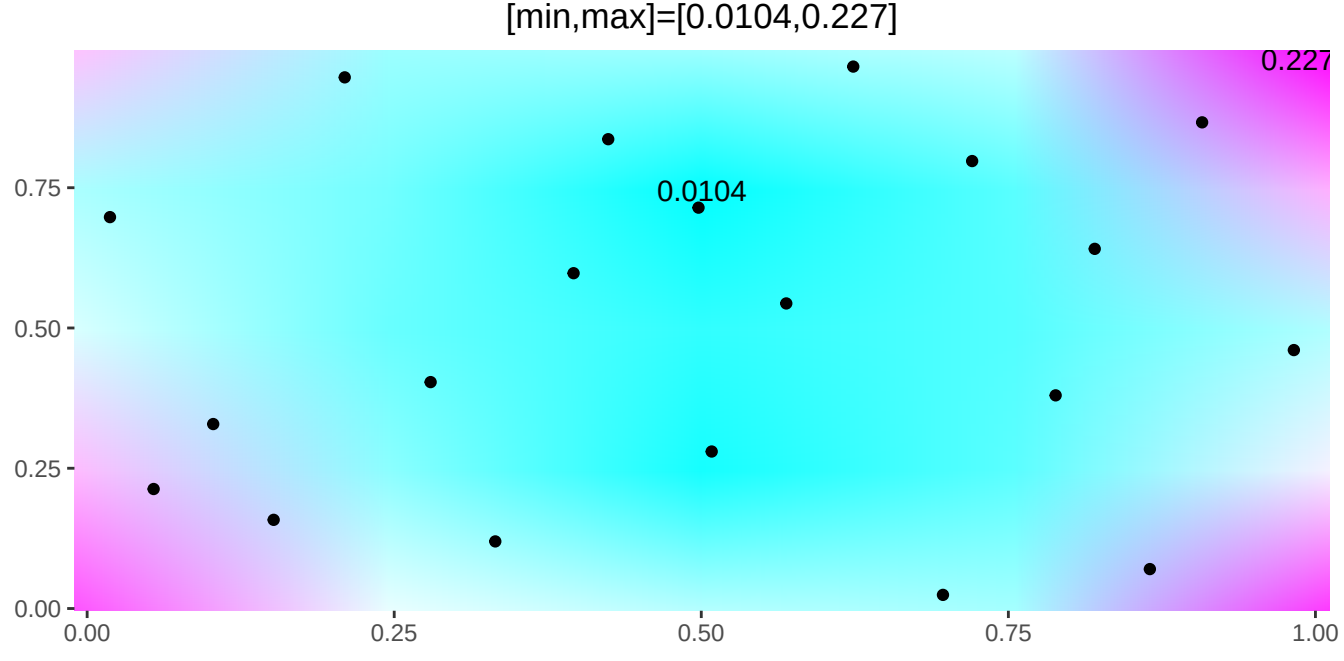
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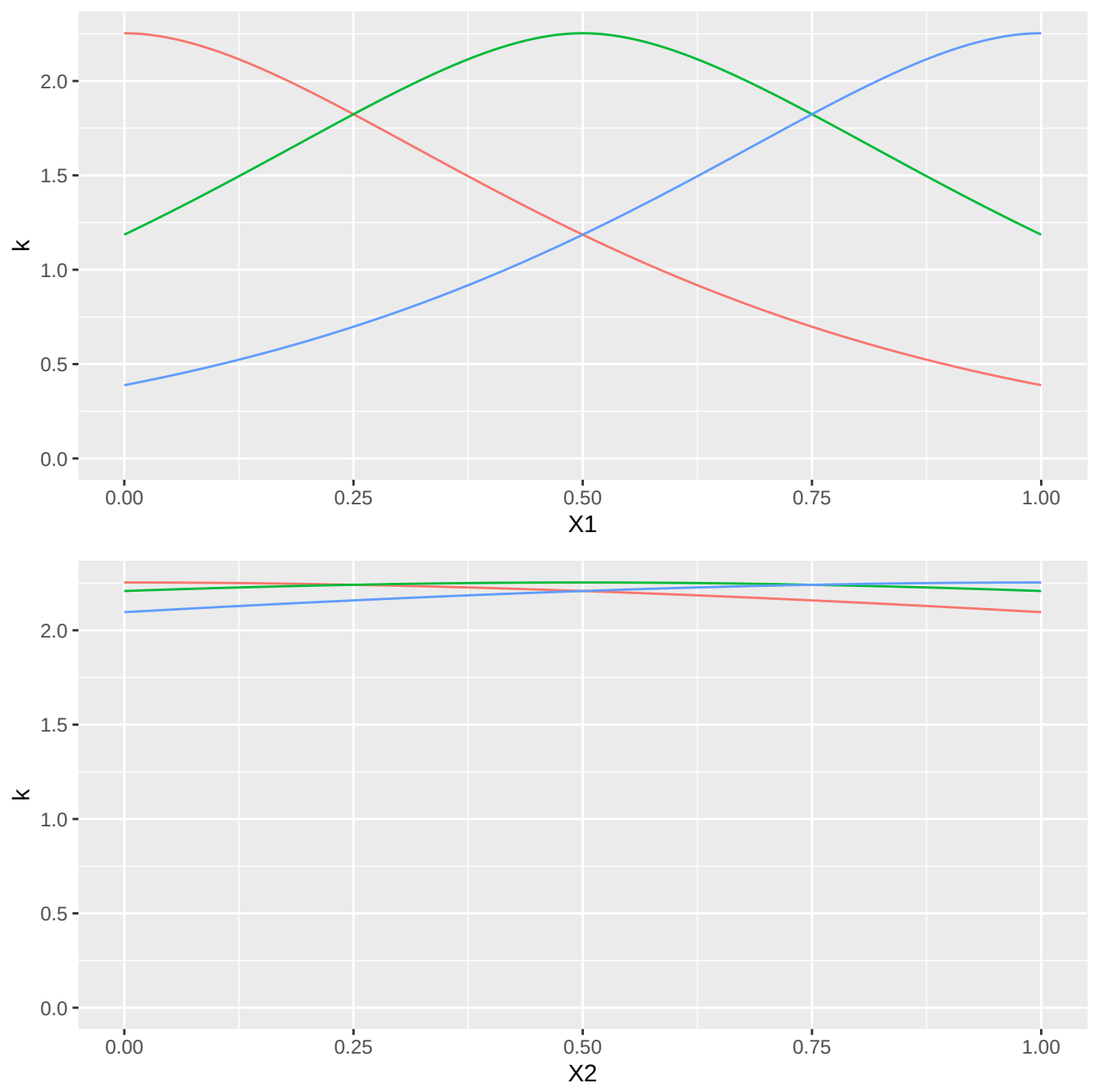
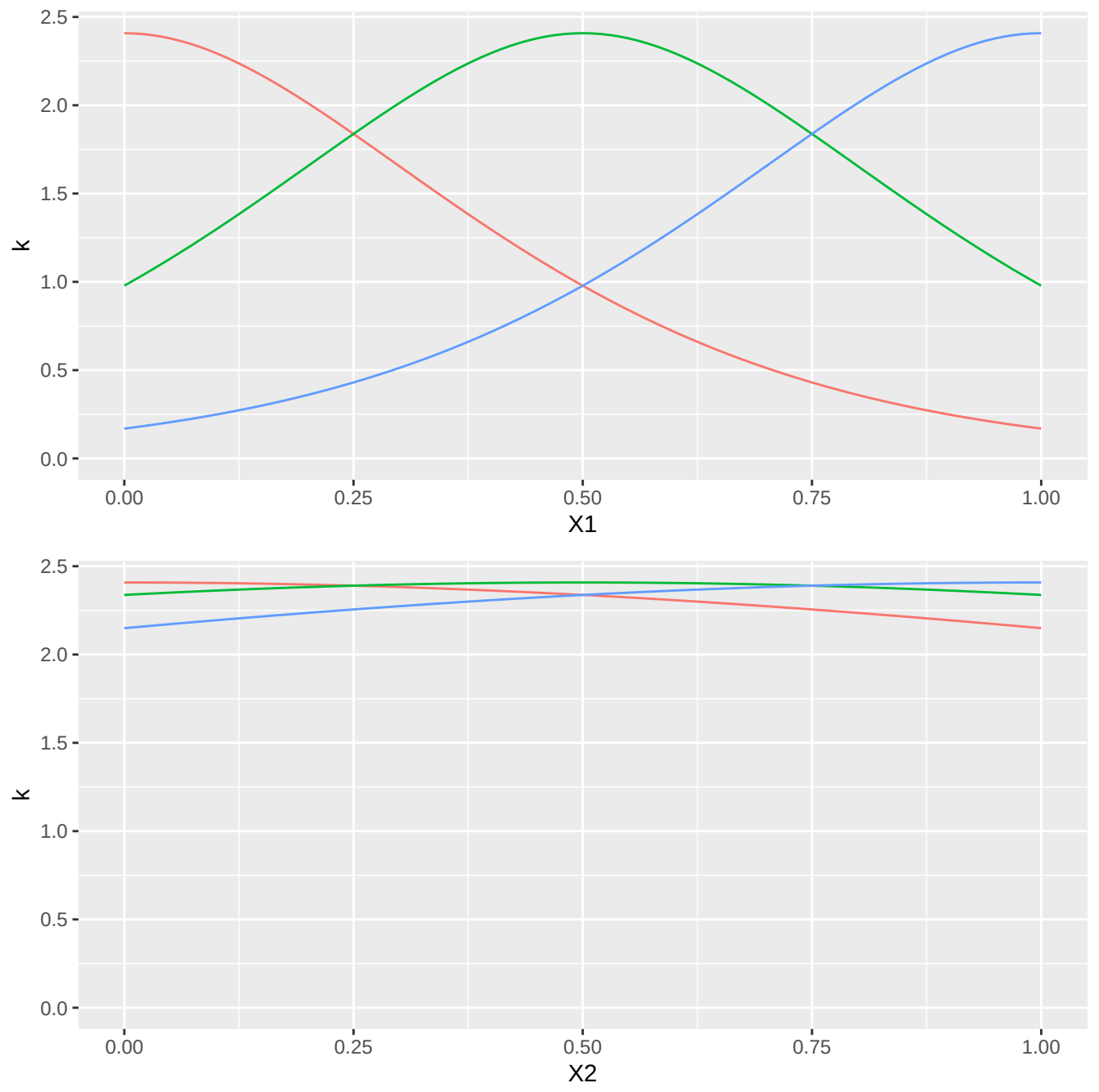

2.0
1.5
1.0
0.5
0.0
k
0.00
0.25
0.50
0.75
1.00
X1
2.0
1.5
1.0
0.5
0.0
k
0.00
0.25
0.50
0.75
1.00
X2


2.5
2.0
1.5
1.0
0.5
0.0
k
0.00
0.25
0.50
0.75
1.00
X1
2.5
2.0
1.5
1.0
0.5
0.0
k
0.00
0.25
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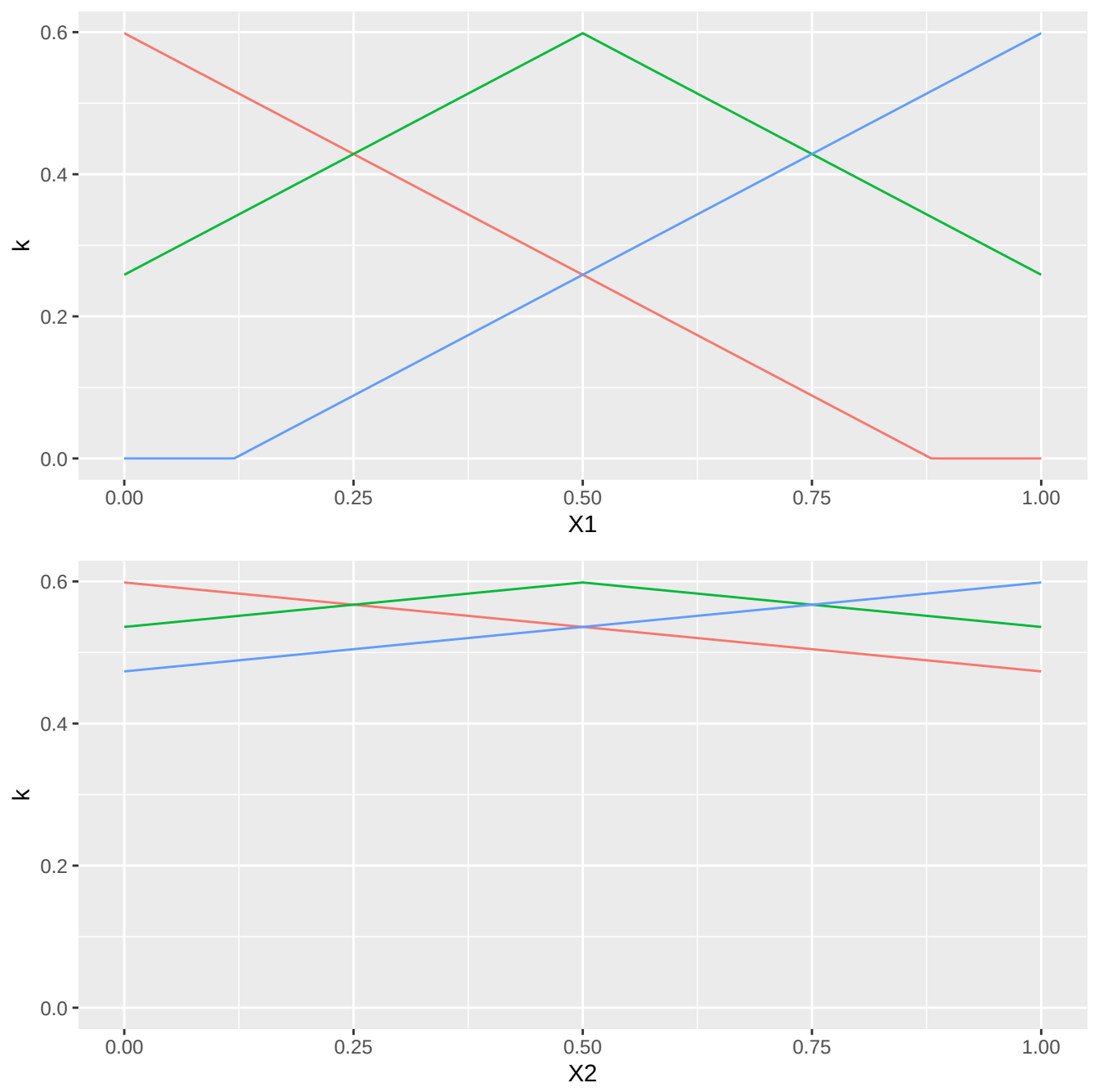
0.75
1.00
X2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0.4
0.2
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0.00
0.25
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X1
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0.4
0.2
0.0
k
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0.25
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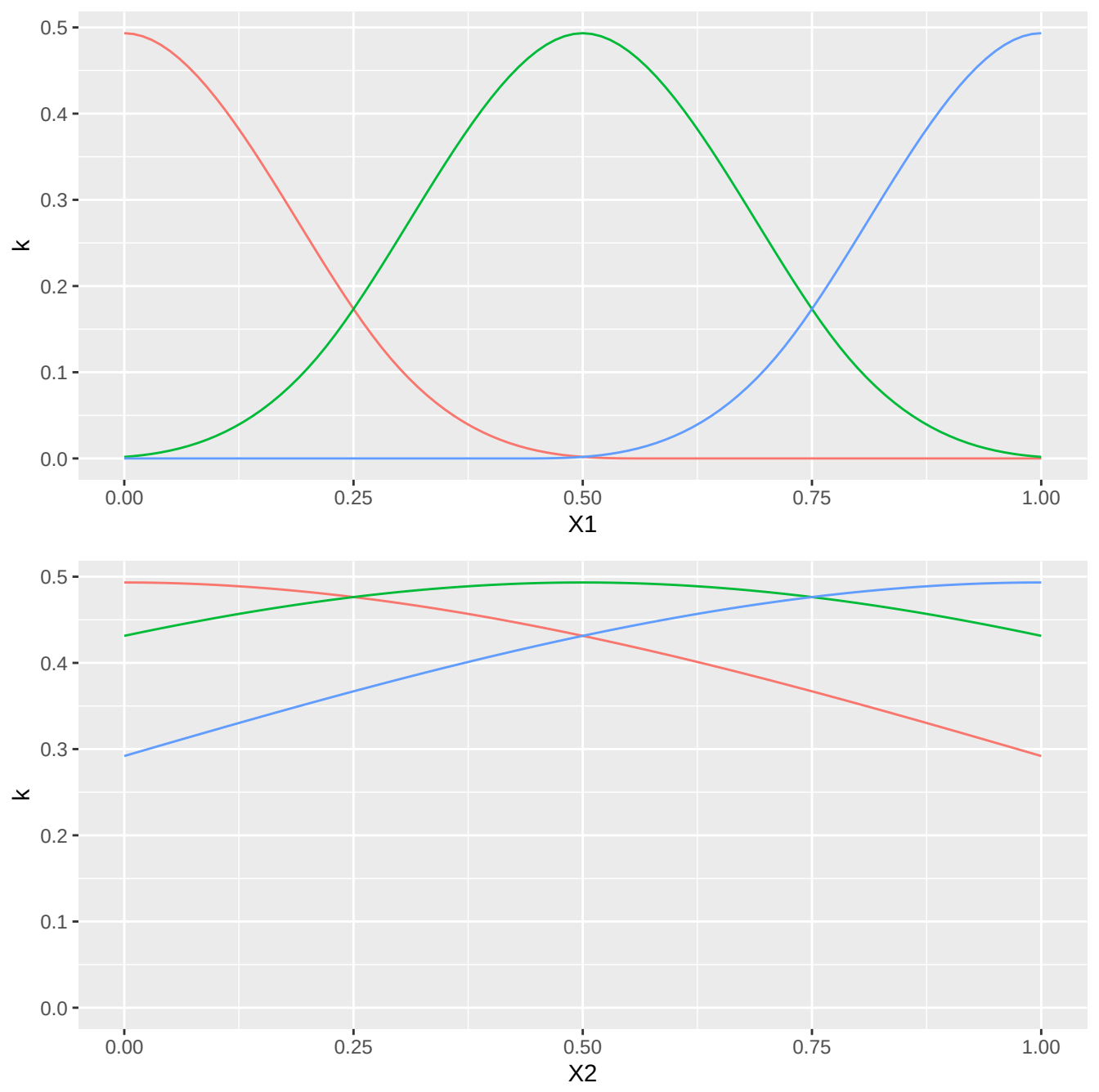
0.75
1.00
X2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0.4
0.3
0.2
0.1
0.0
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0.25
0.50
0.75
1.00
X1
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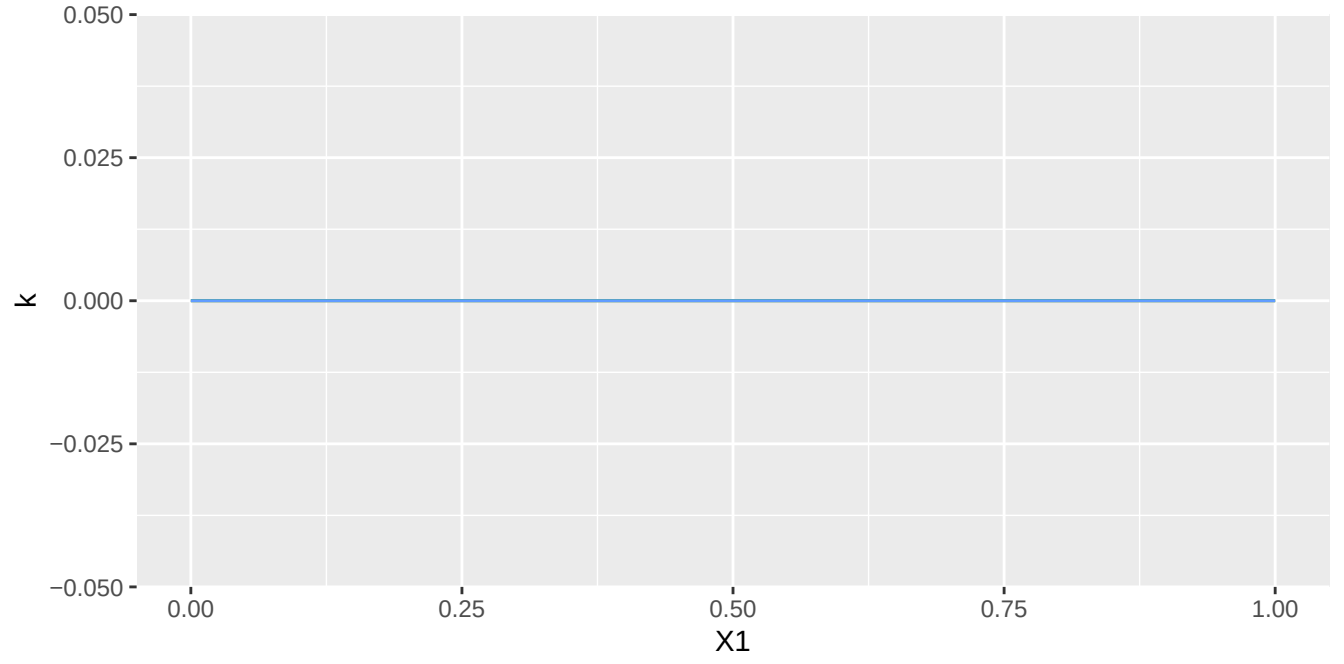
X2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0.000
−0.025
−0.050
k
0.00
0.25
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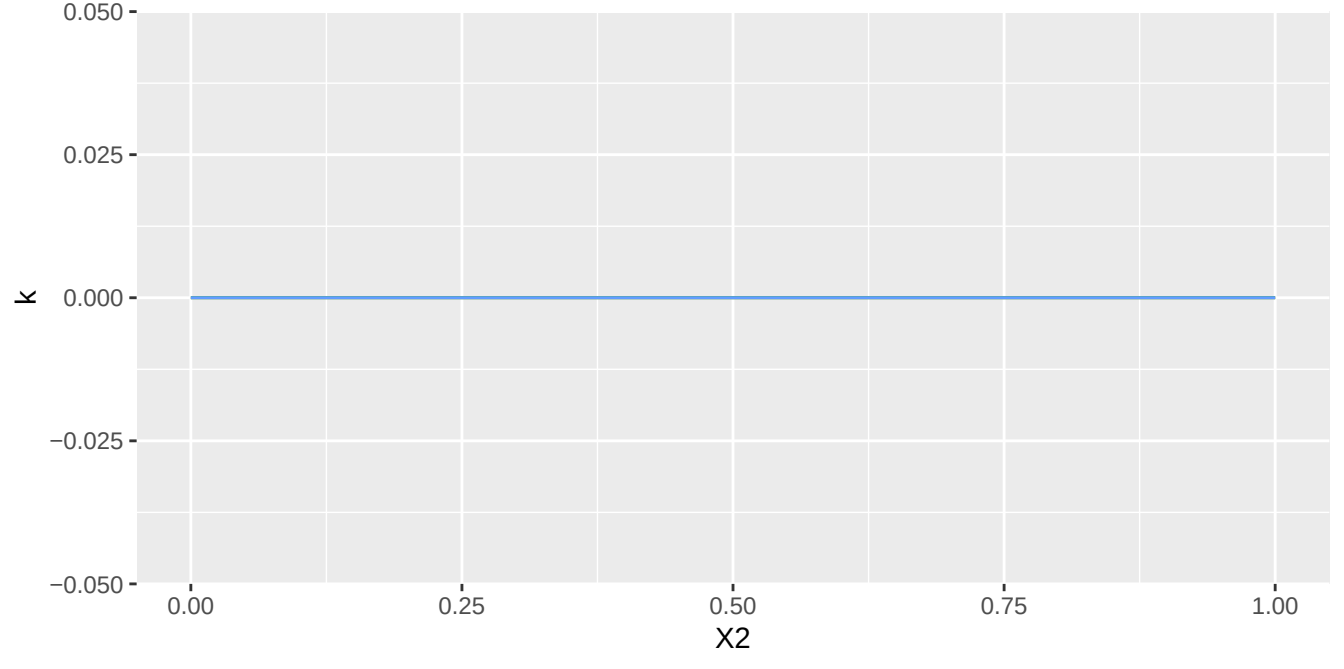
0.75
1.00
X1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0.025
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−0.025
−0.050
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0.25
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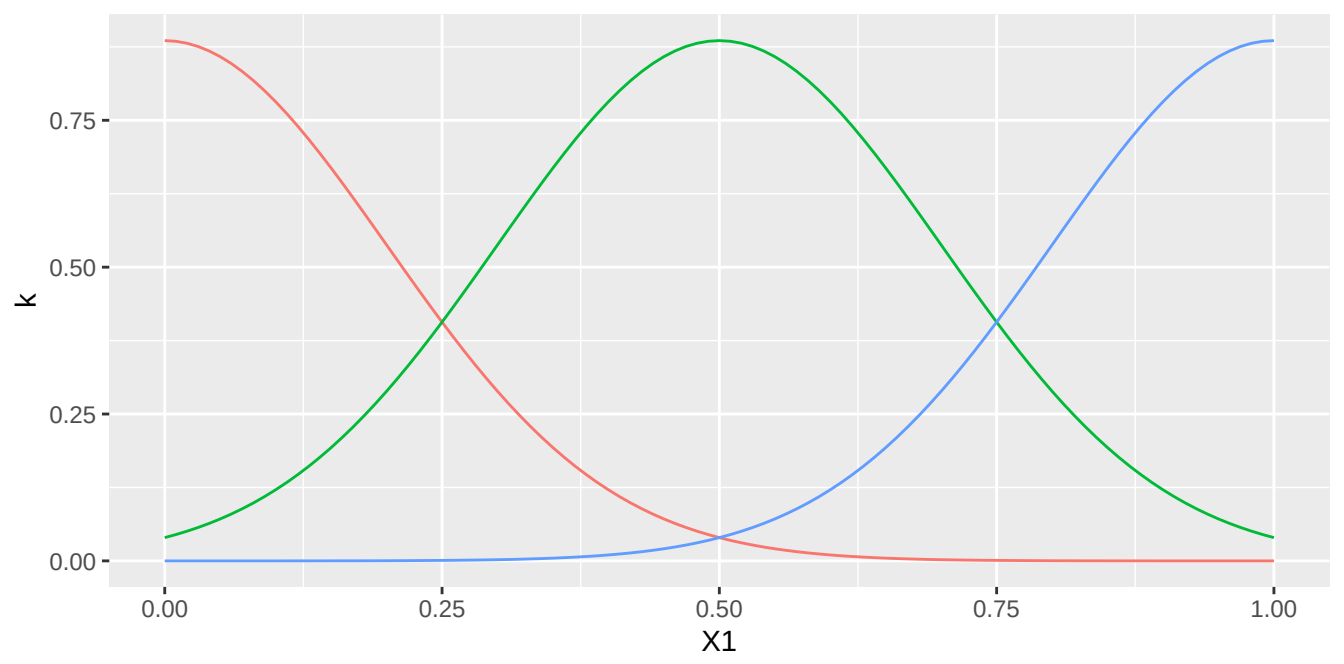
0.75
1.00
X2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0.25
0.00
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0.25
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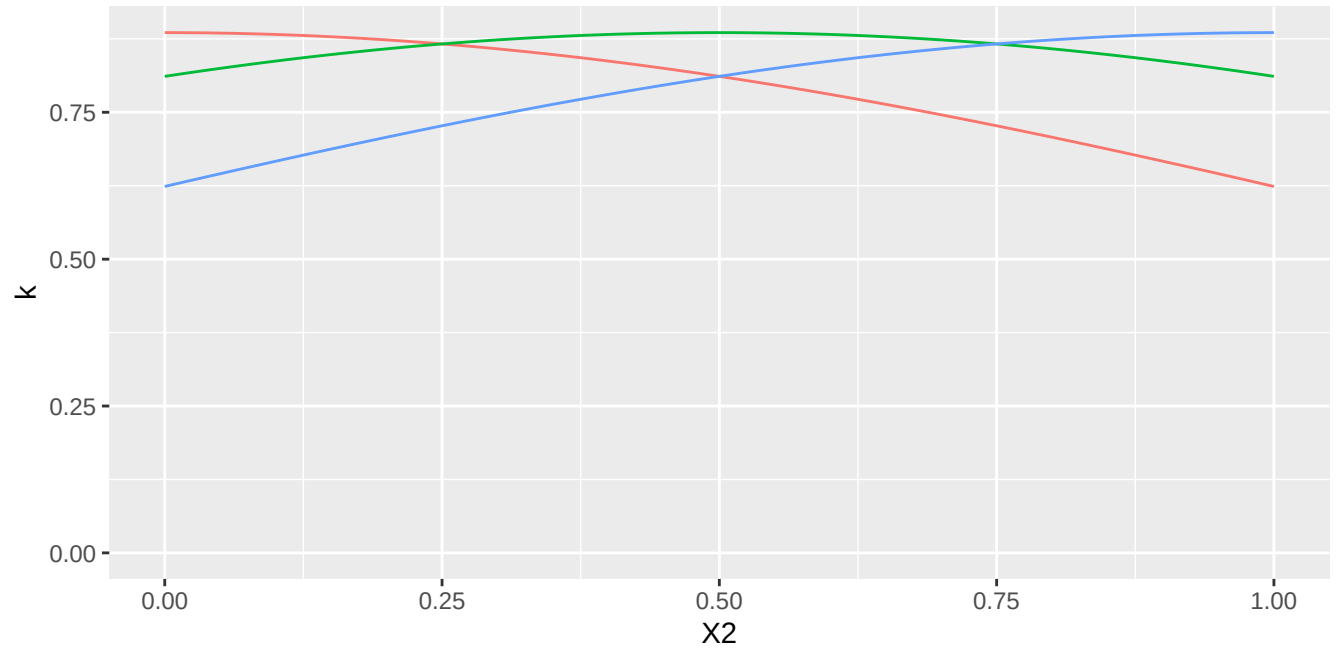
0.75
1.00
X1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0.25
0.00
k
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0.25
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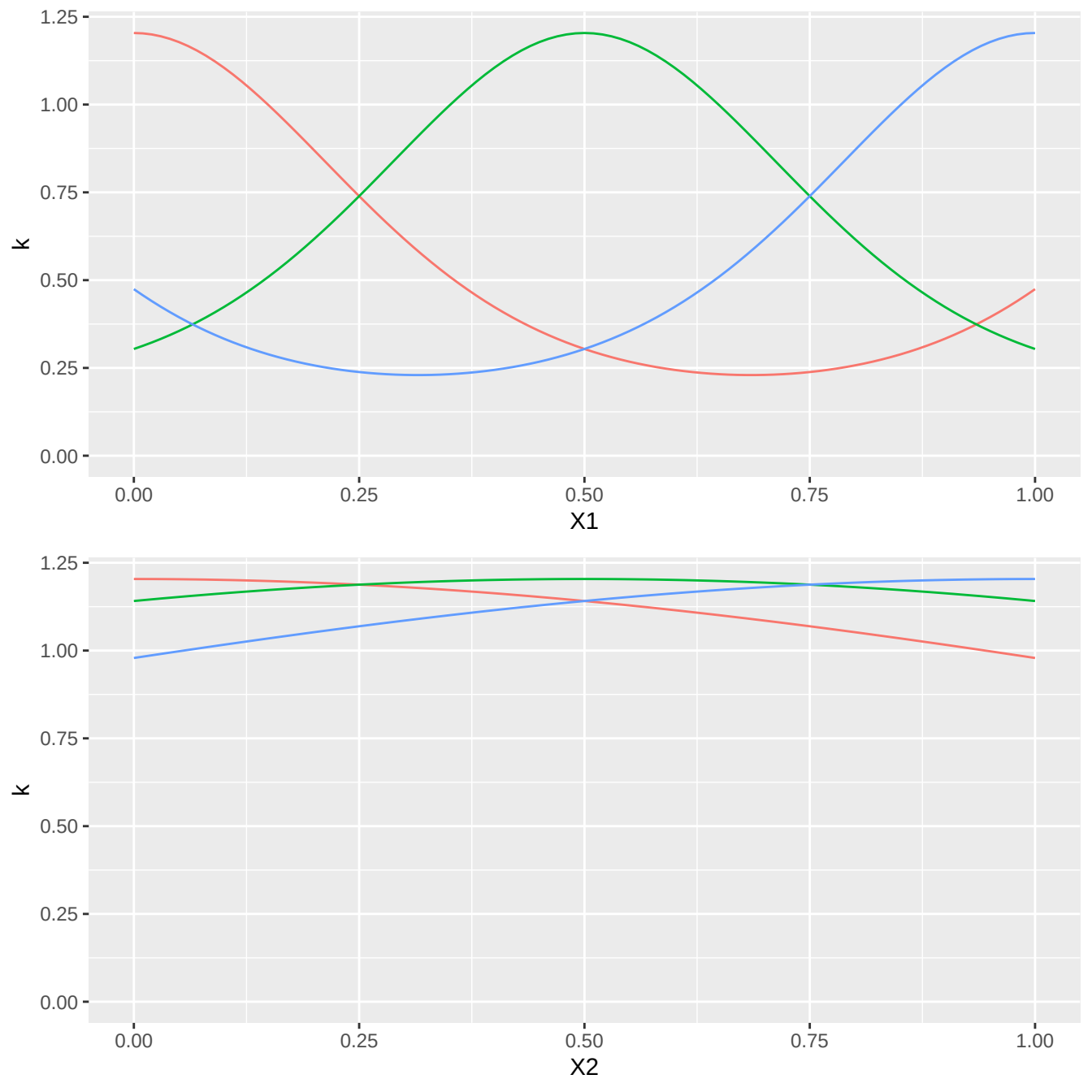
X2


1.25
1.00
0.75
0.50
0.25
0.00
k
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0.25
0.50
0.75
1.00
X1
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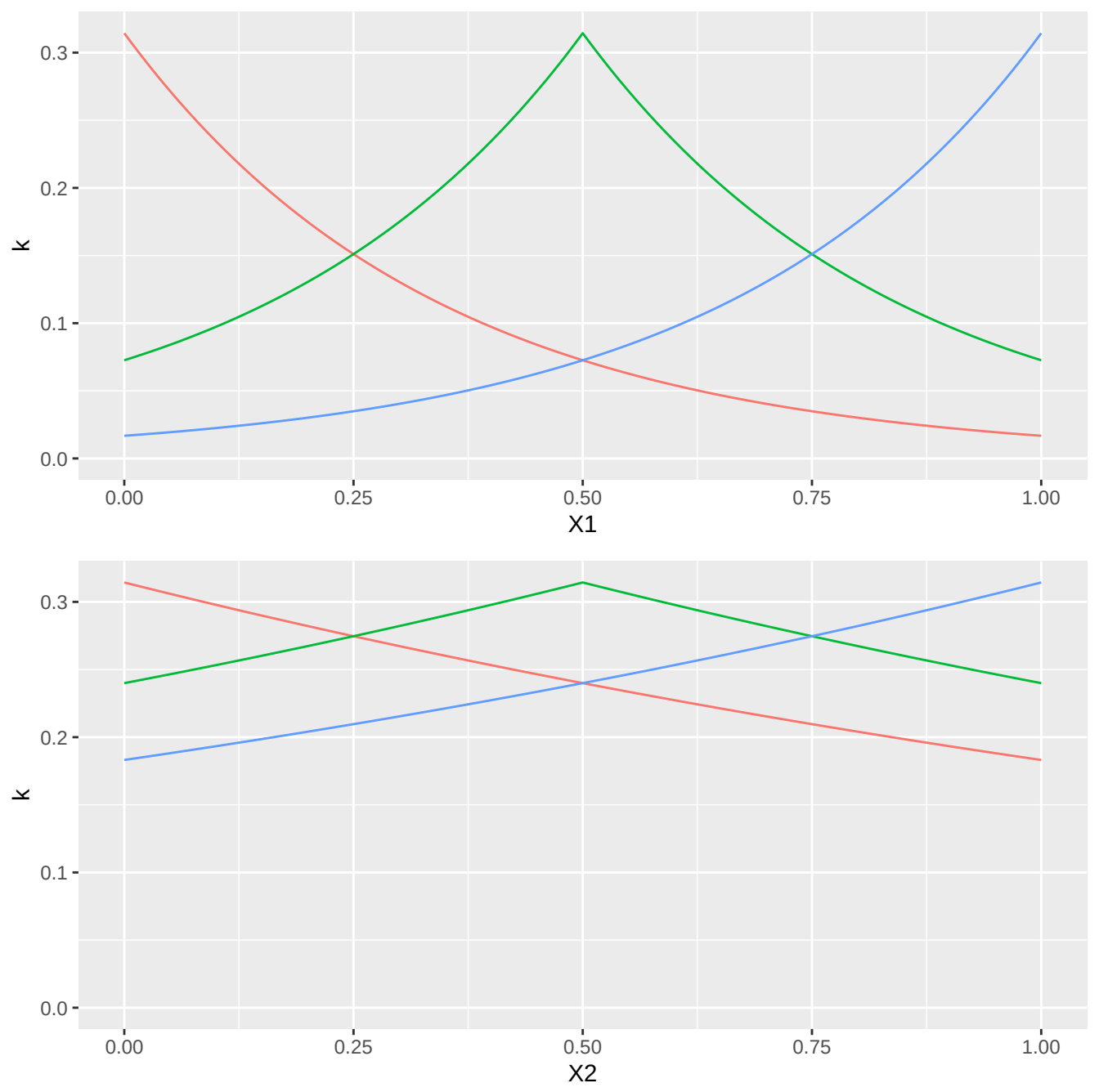
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0.00
0.25
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0.75
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X1
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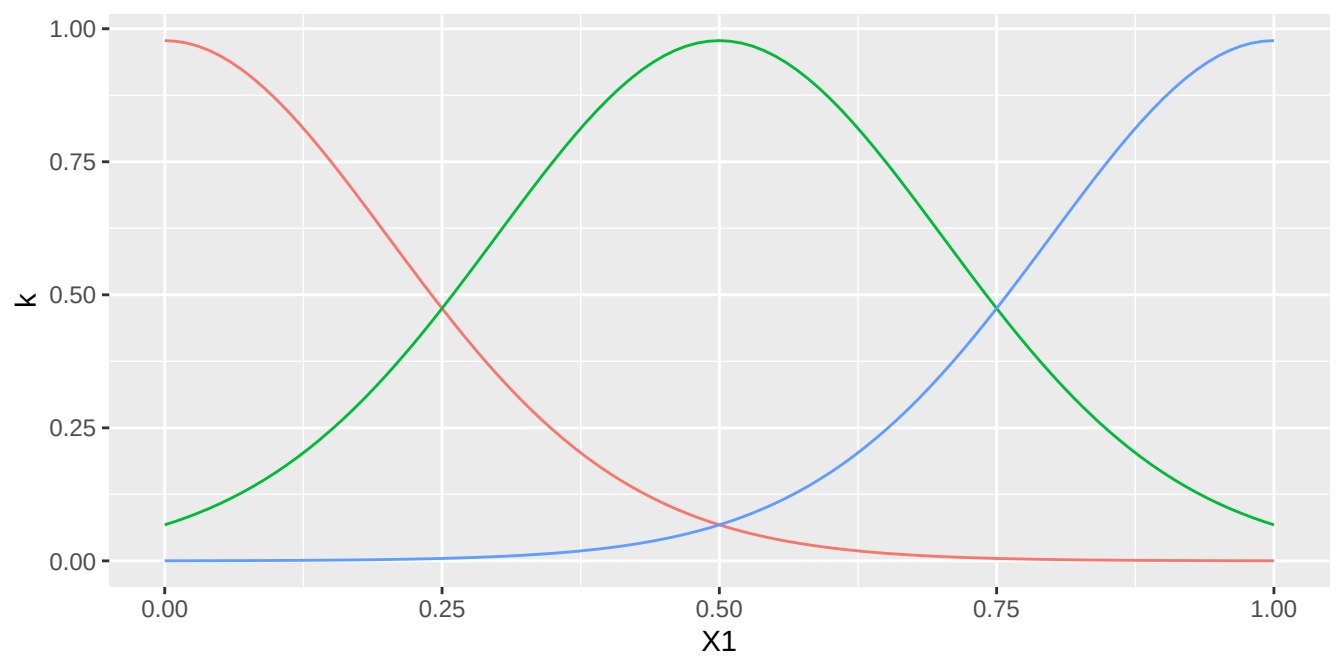
X2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0.25
0.00
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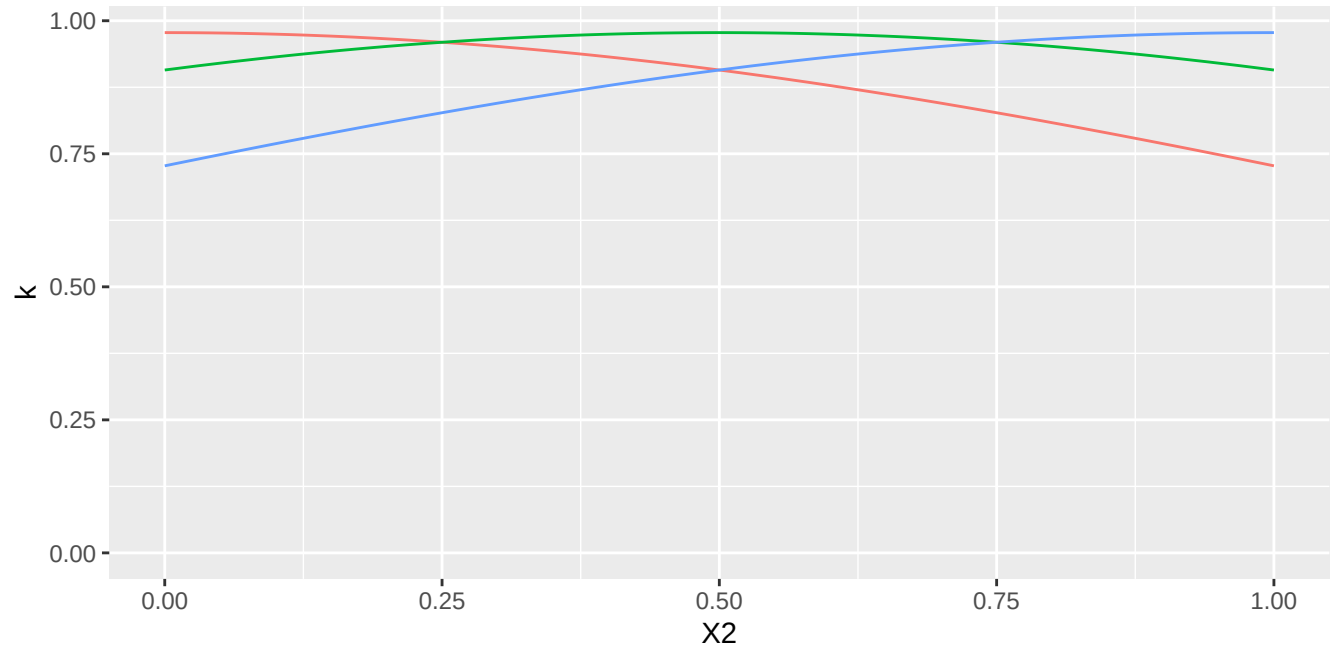
0.25
0.50
0.75
1.00
X1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0.50
0.25
0.00
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0.25
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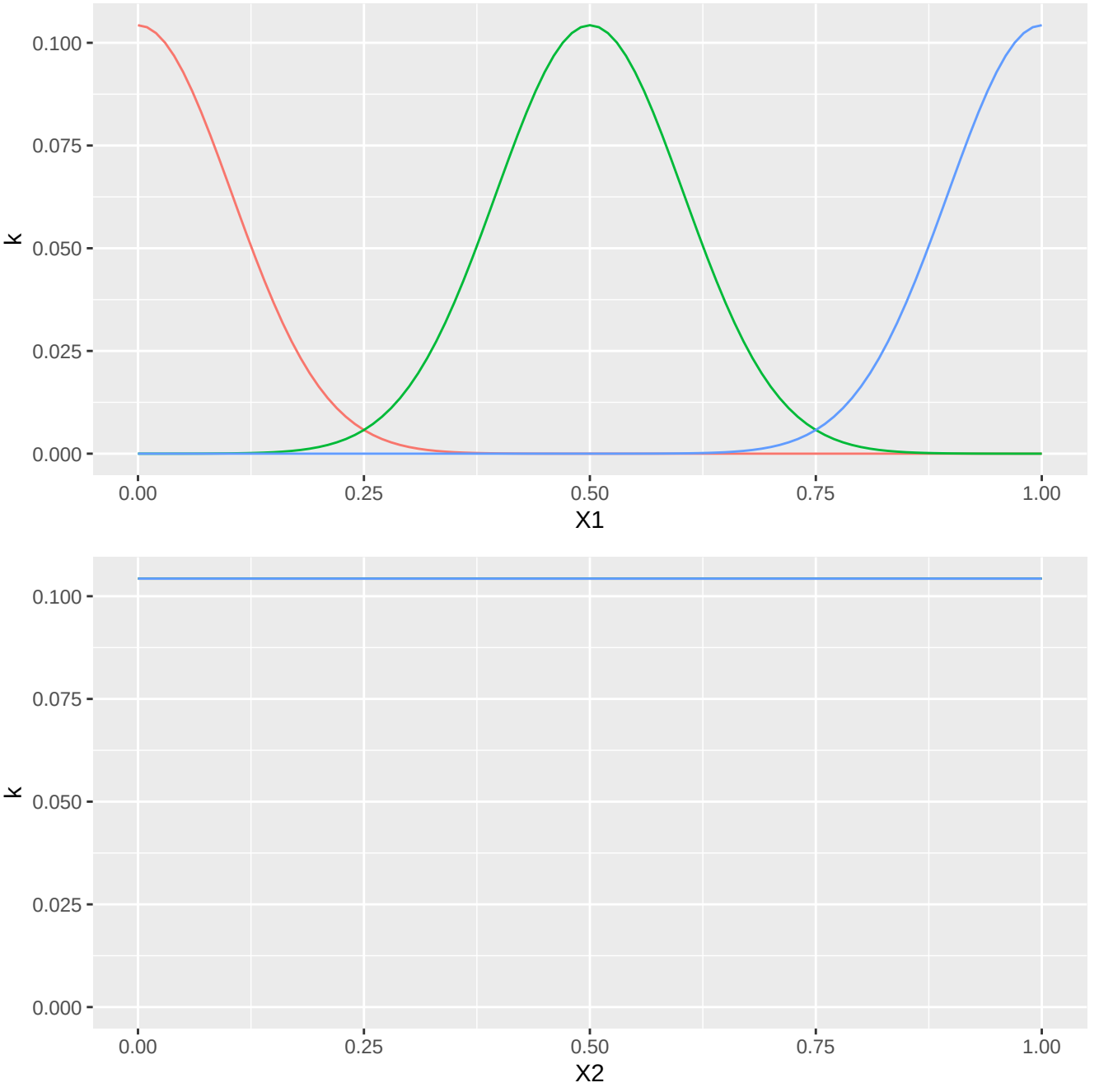
0.75
1.00
X2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0.025
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0.25
0.50
0.75
1.00
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0.000
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0.25
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0.75
1.00
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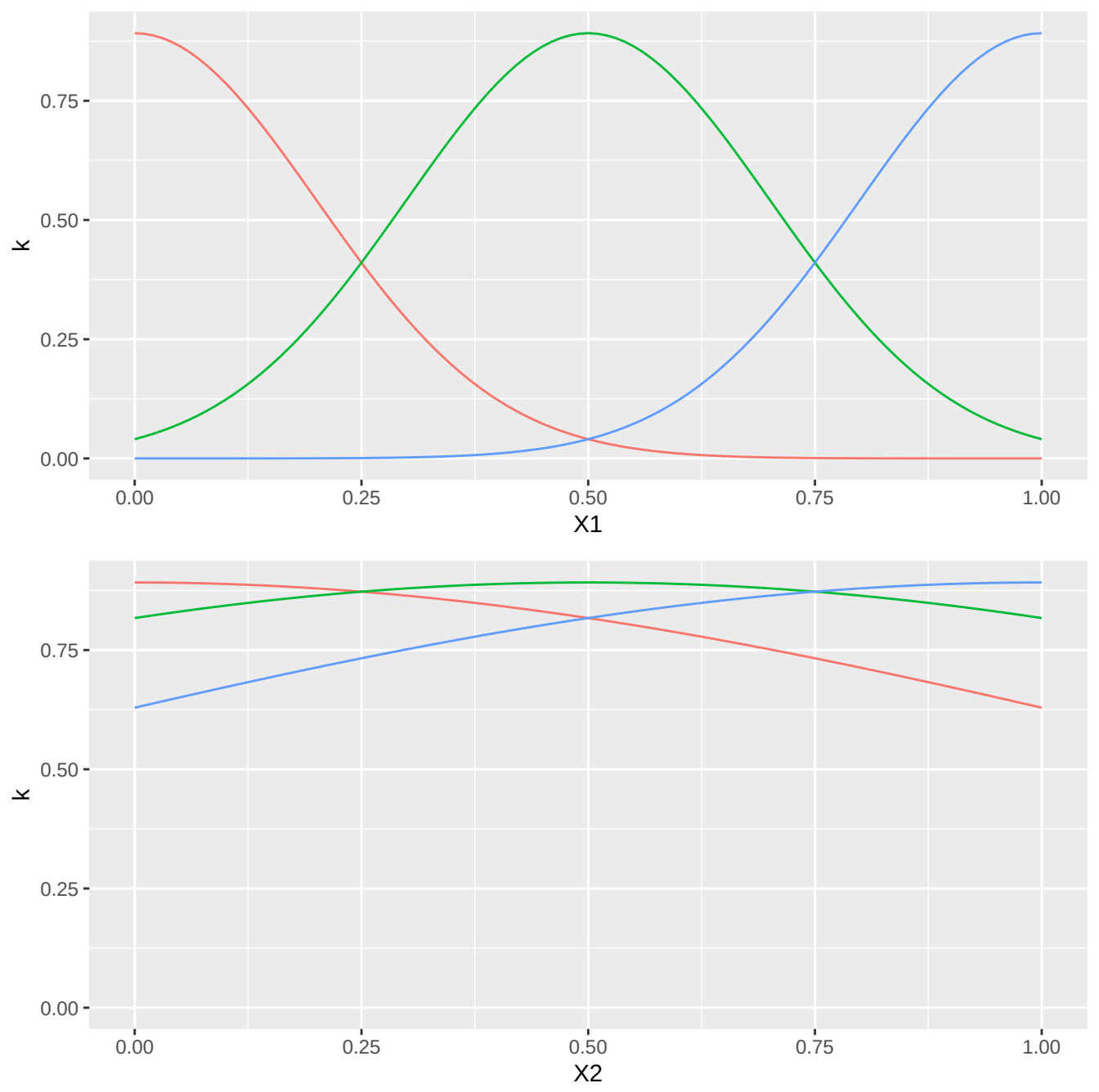
0.75
0.50
0.25
0.00
k
0.00
0.25
0.50
0.75
1.00
X1
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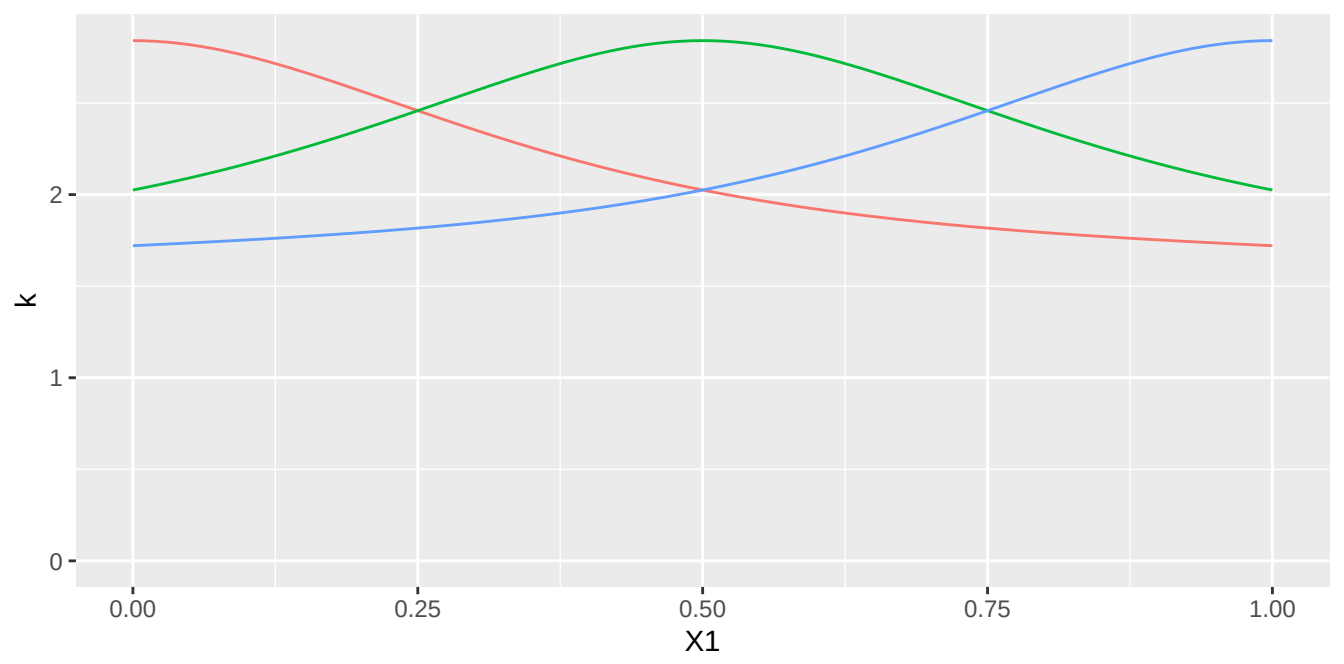
0.50
0.25
0.00
k
0.00
0.25
0.50
0.75
1.00
X2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0.25
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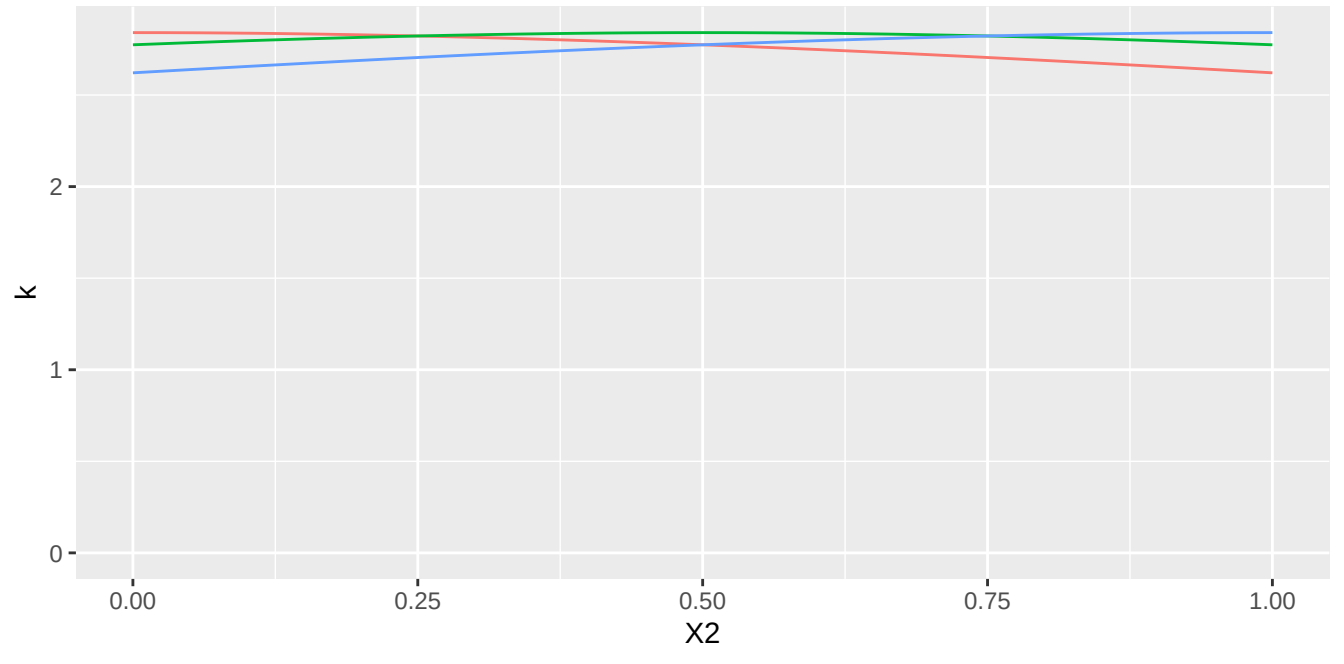
0.75
1.00
X1


k
2
1
0
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0.25
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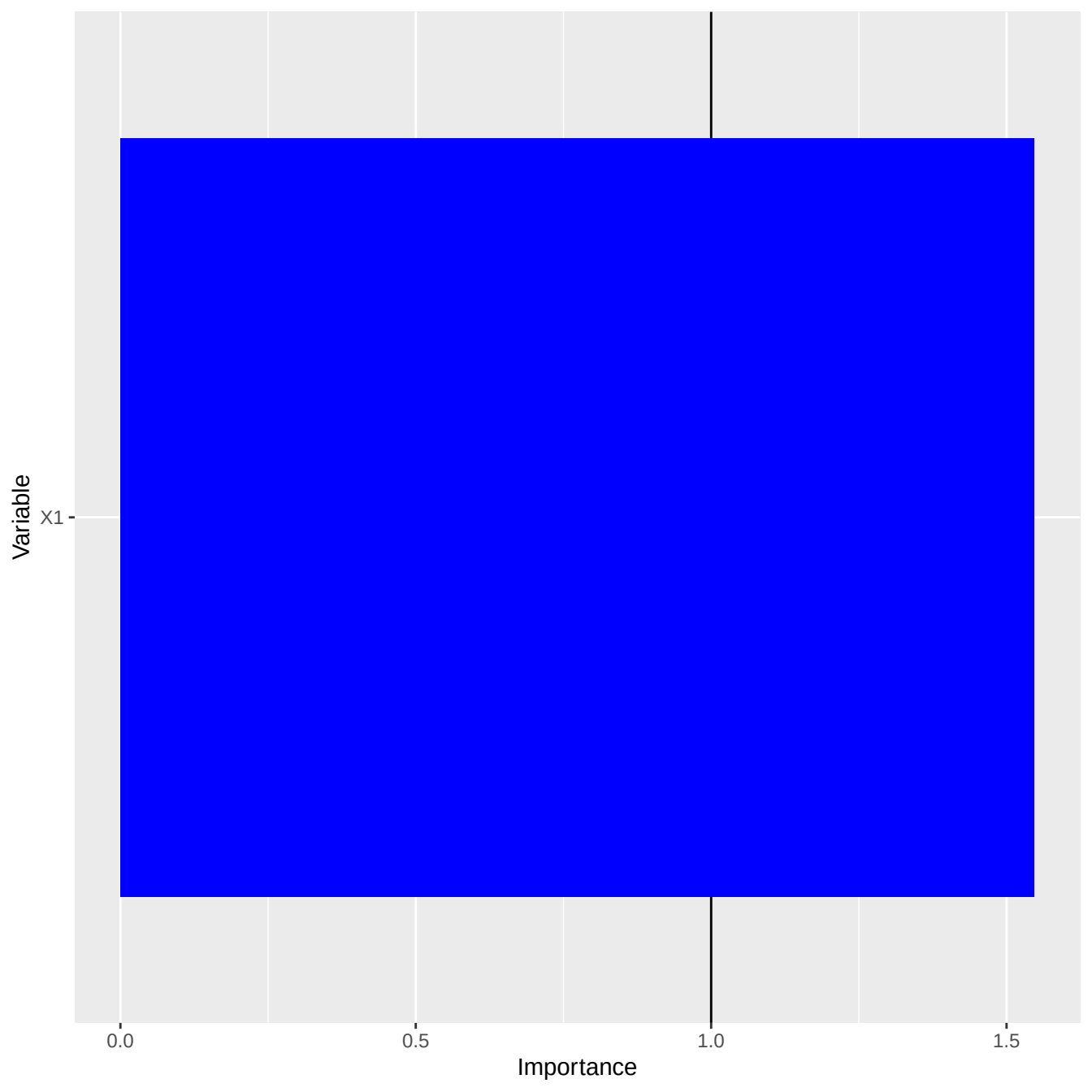
0.75
1.00
X2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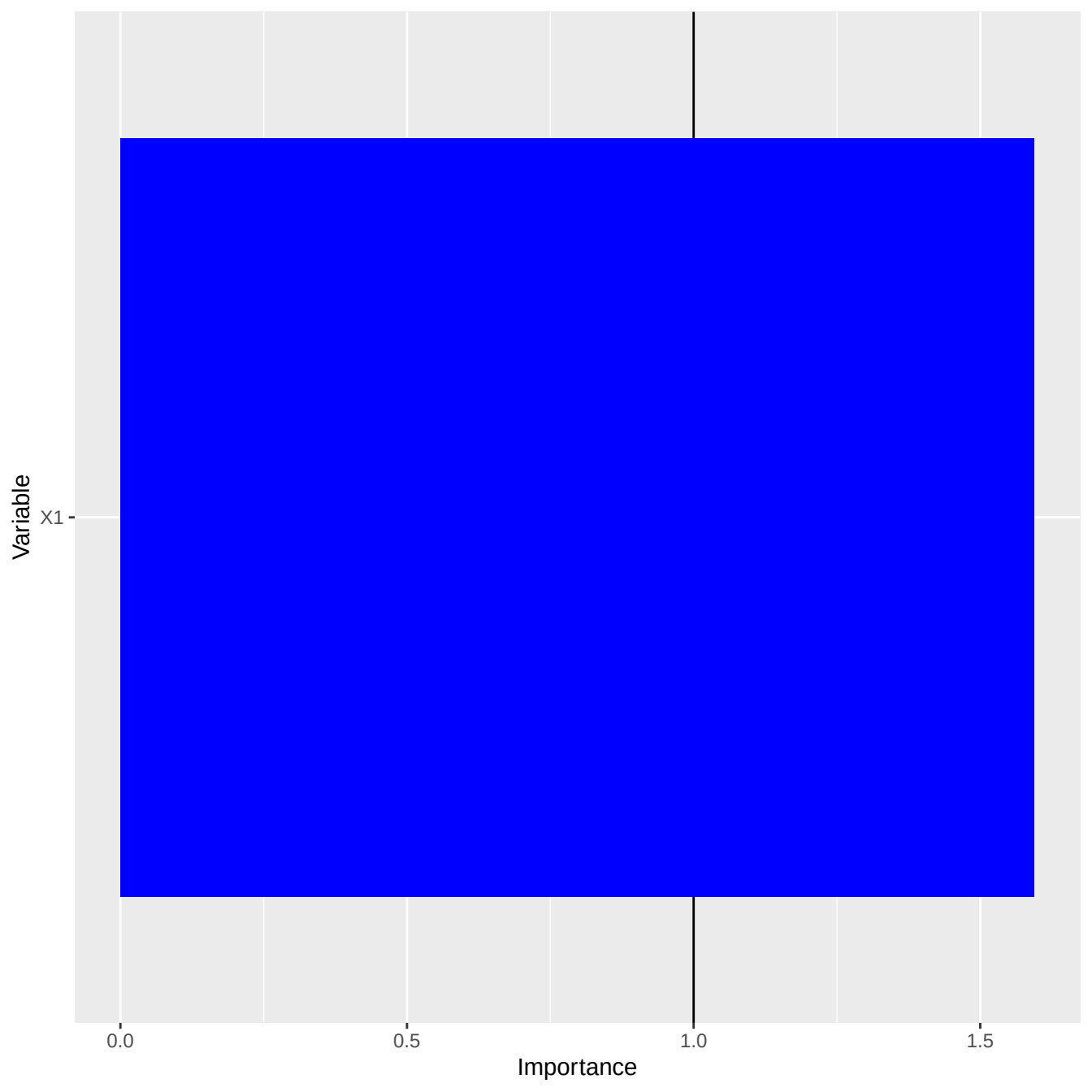
Importance


Variable
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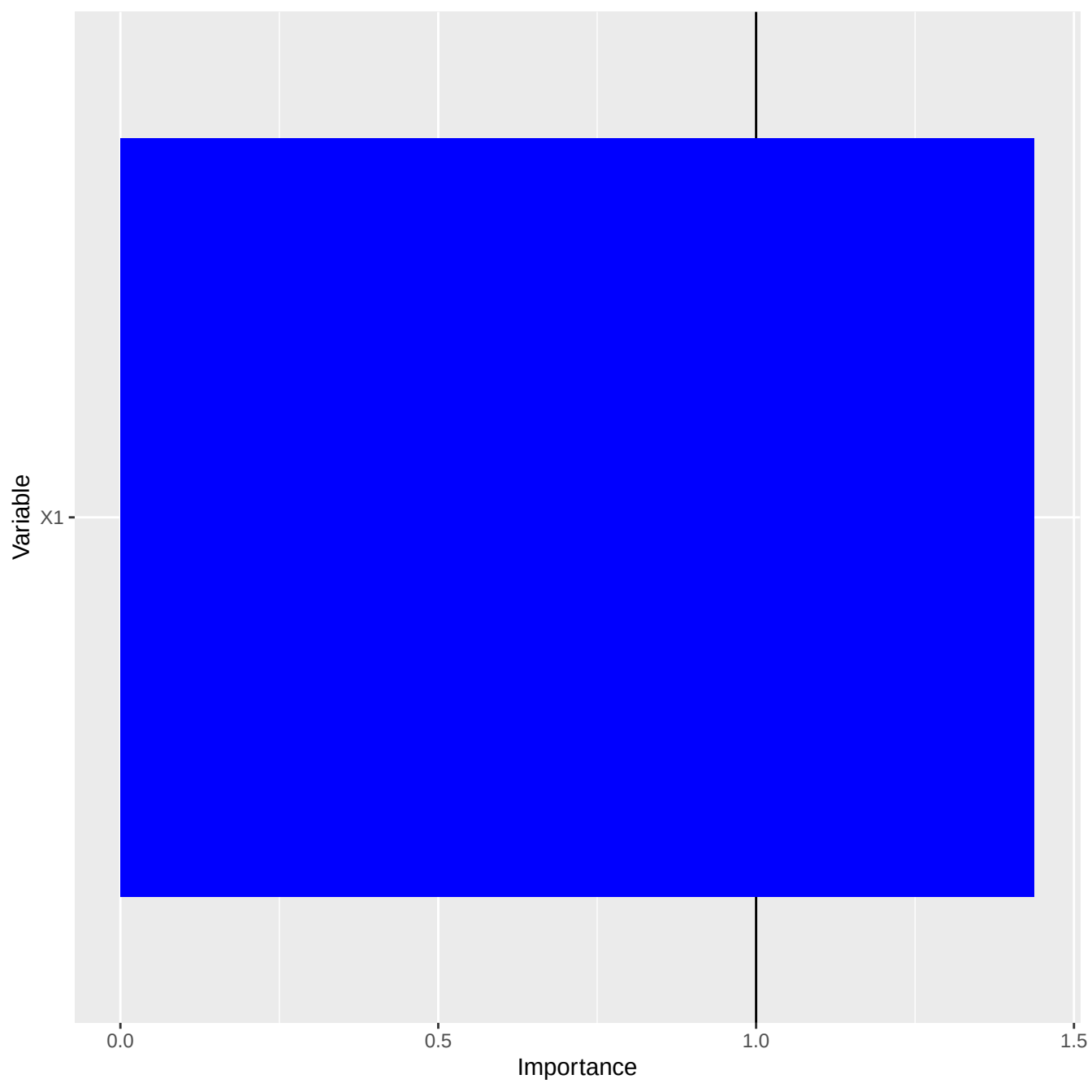
Importance


Variable
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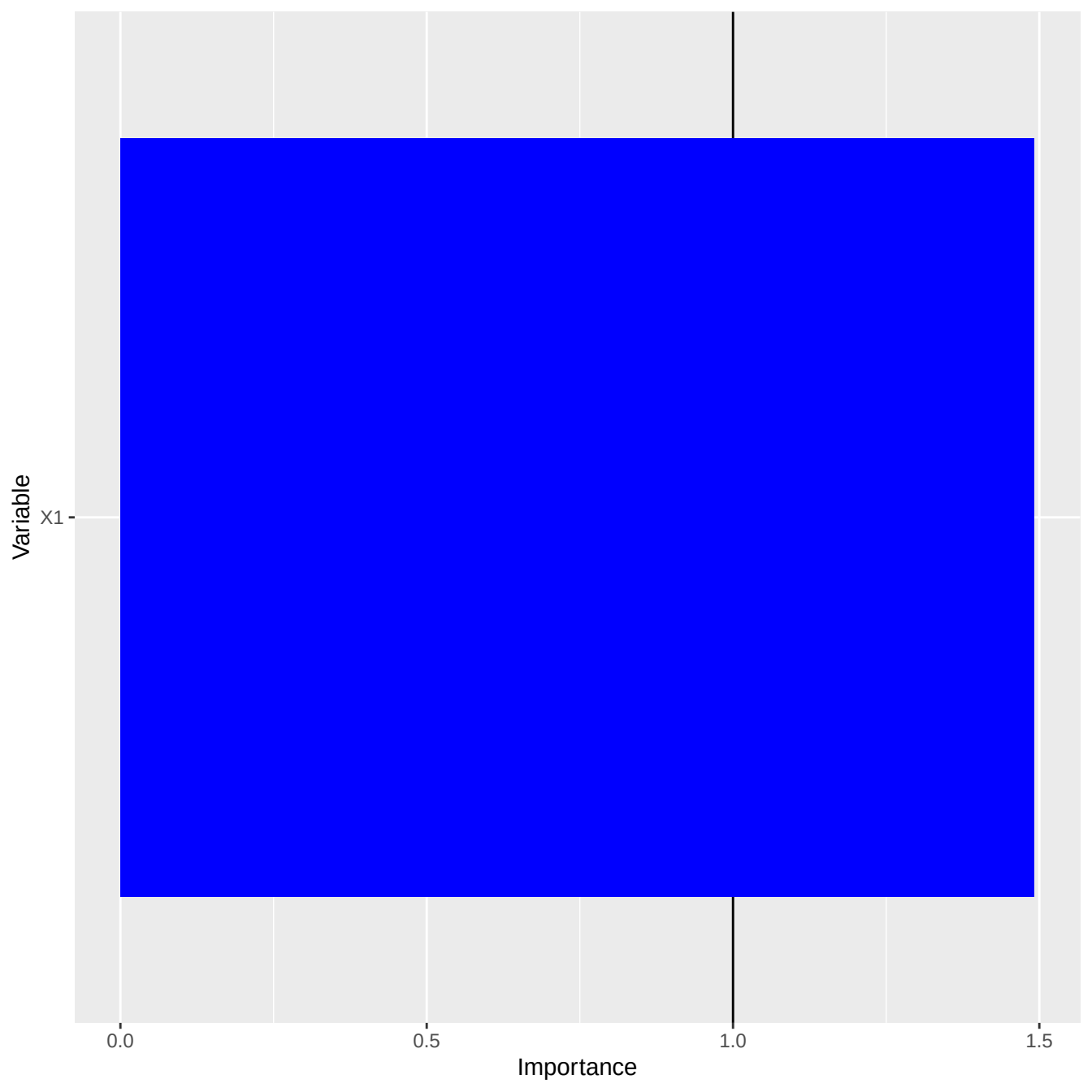
Importance


Variable
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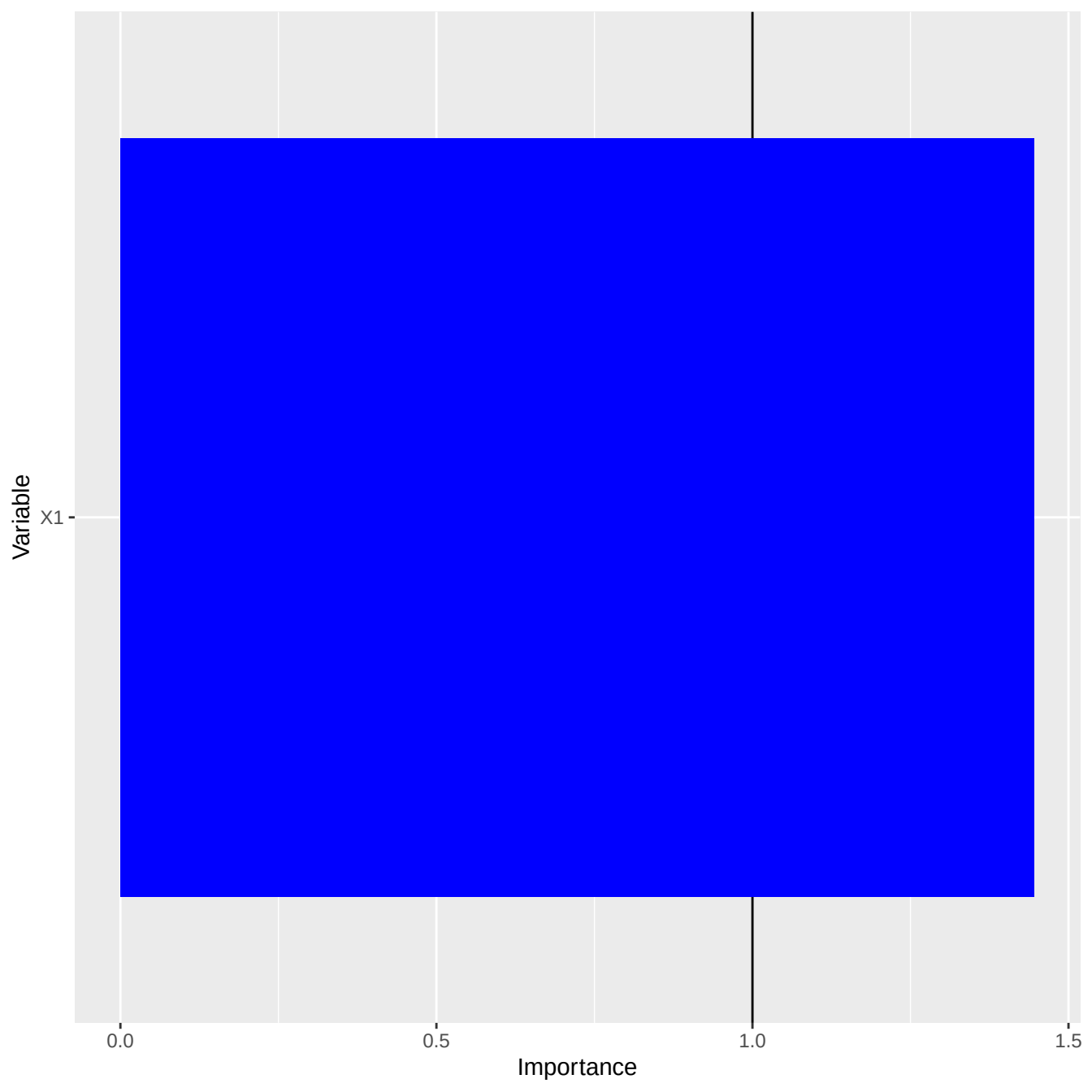
Importance


Variable
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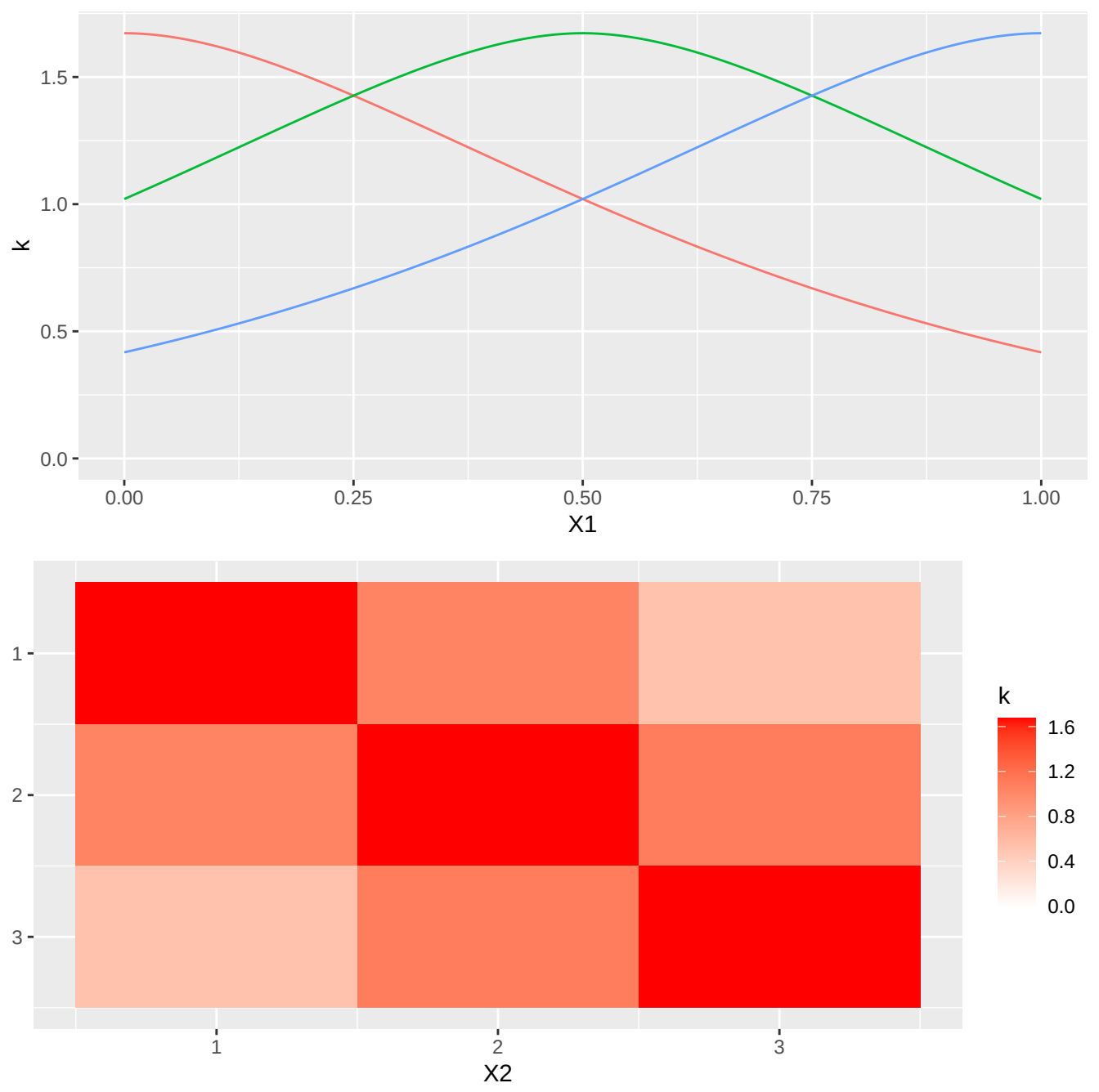
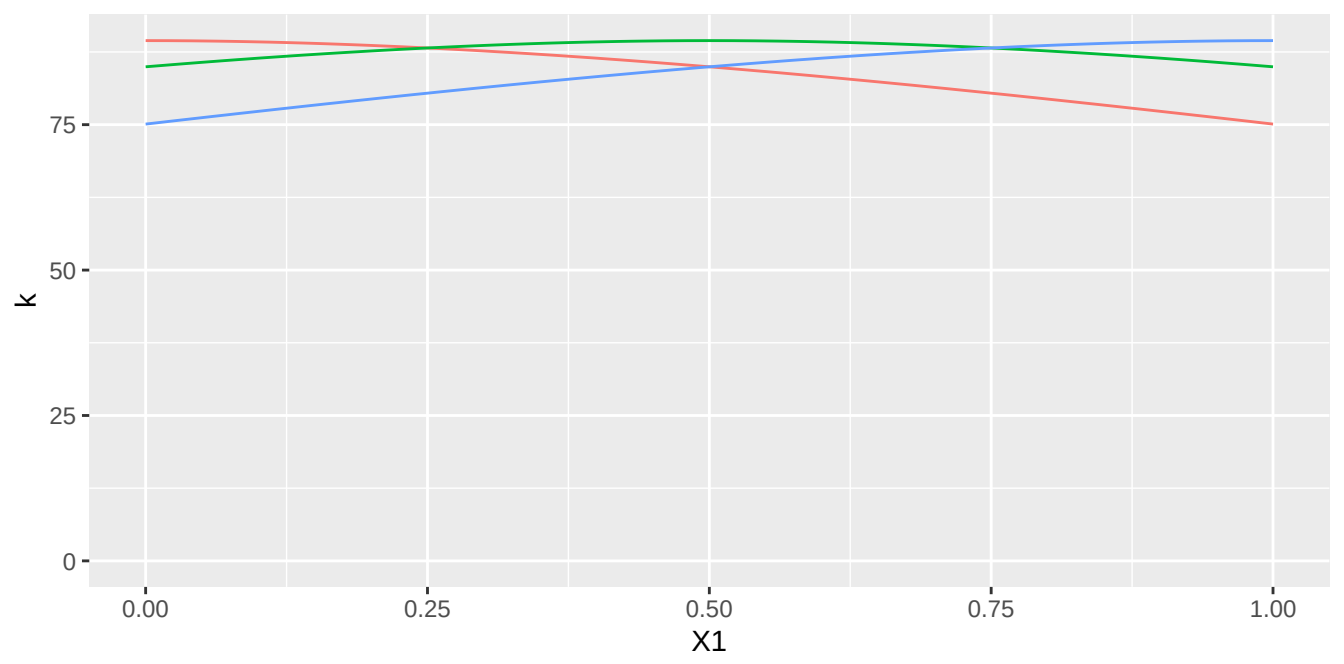
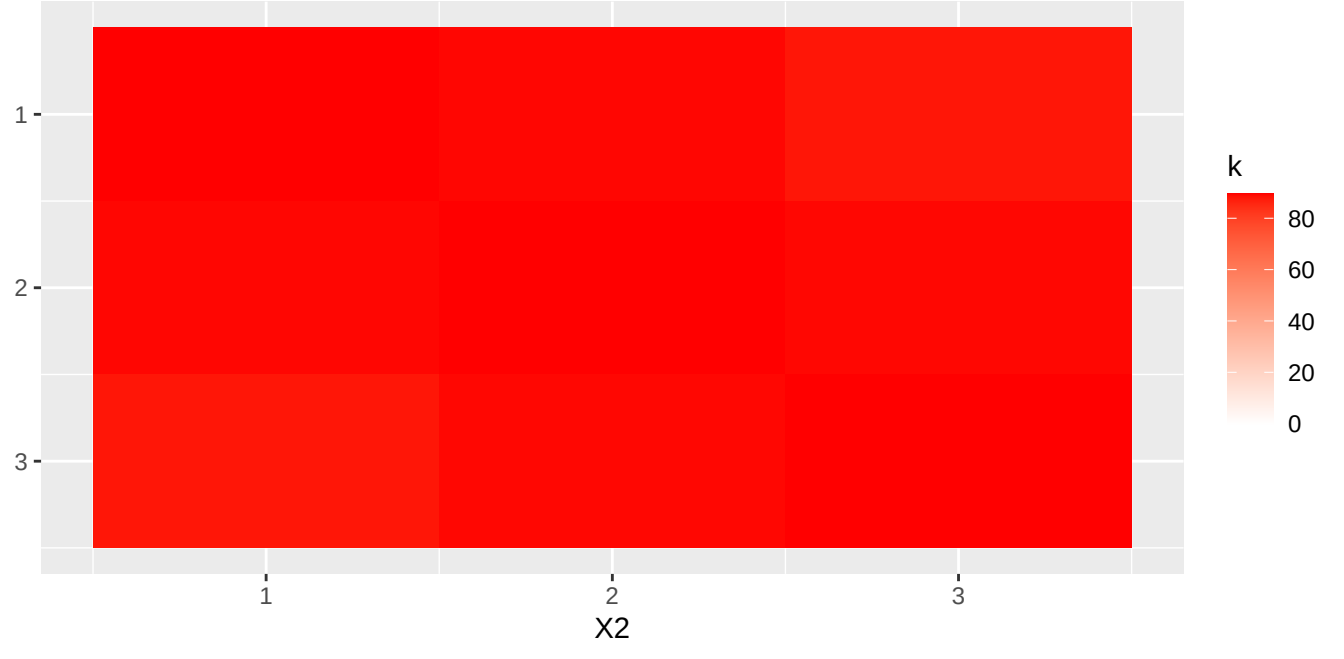
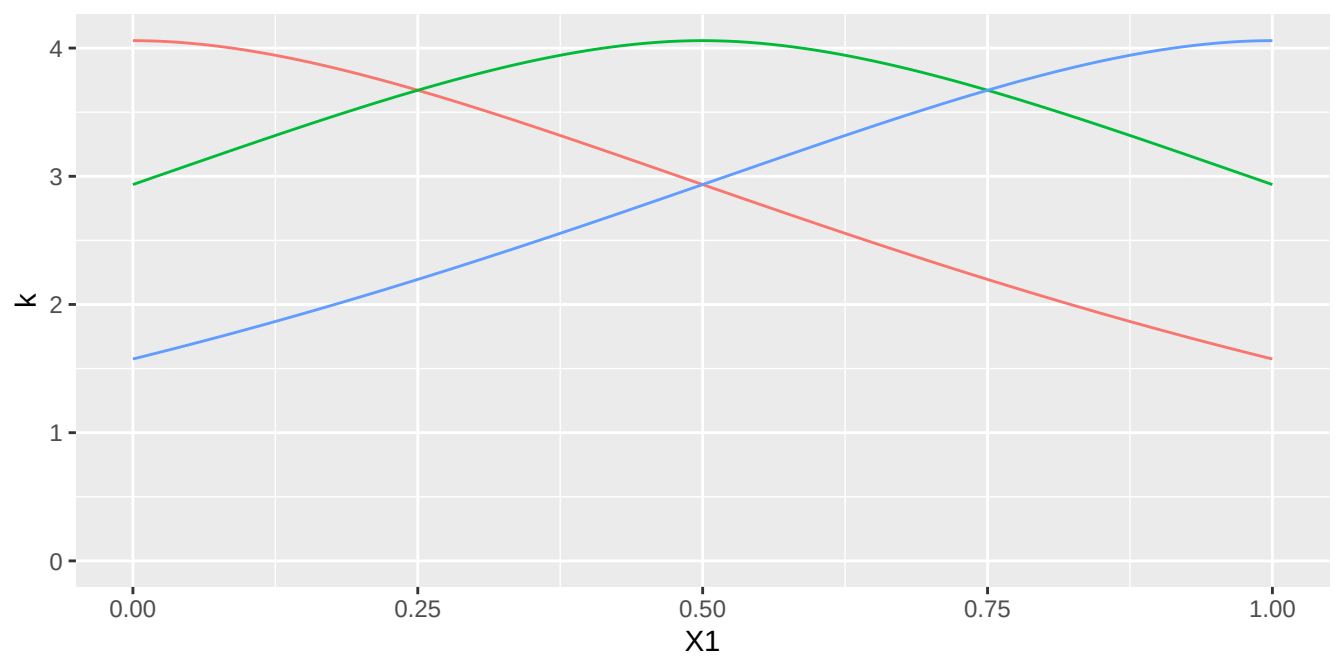
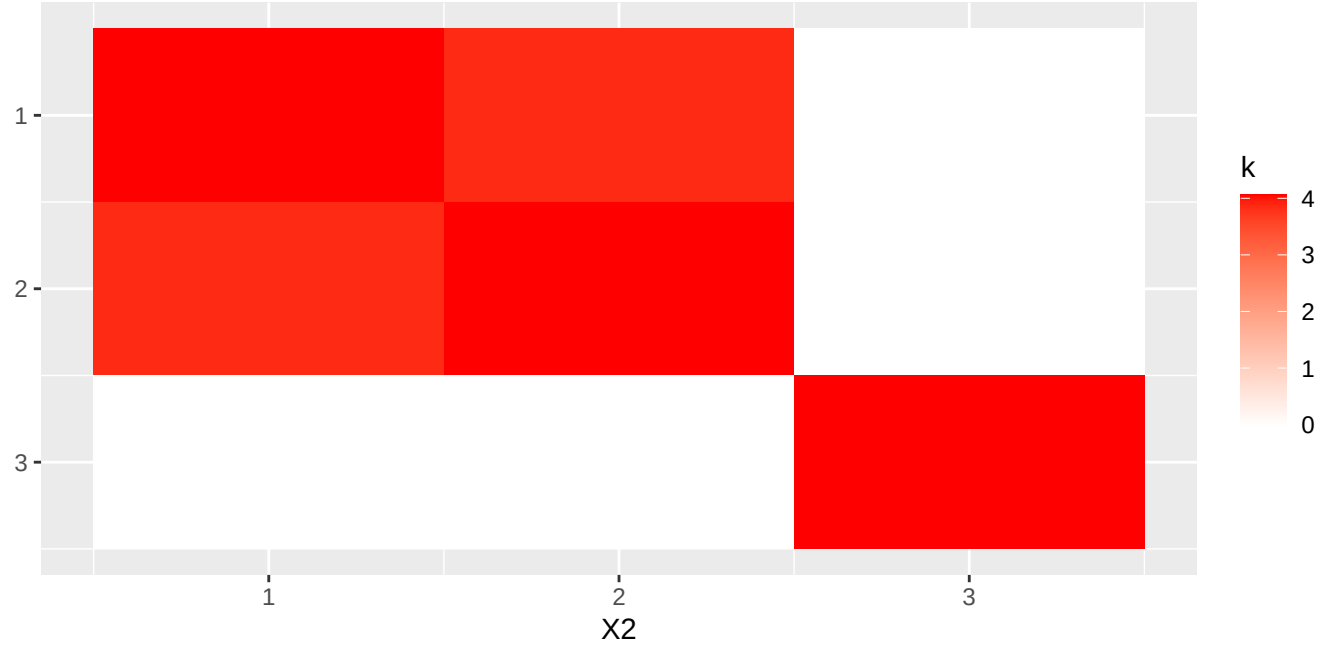
Importance

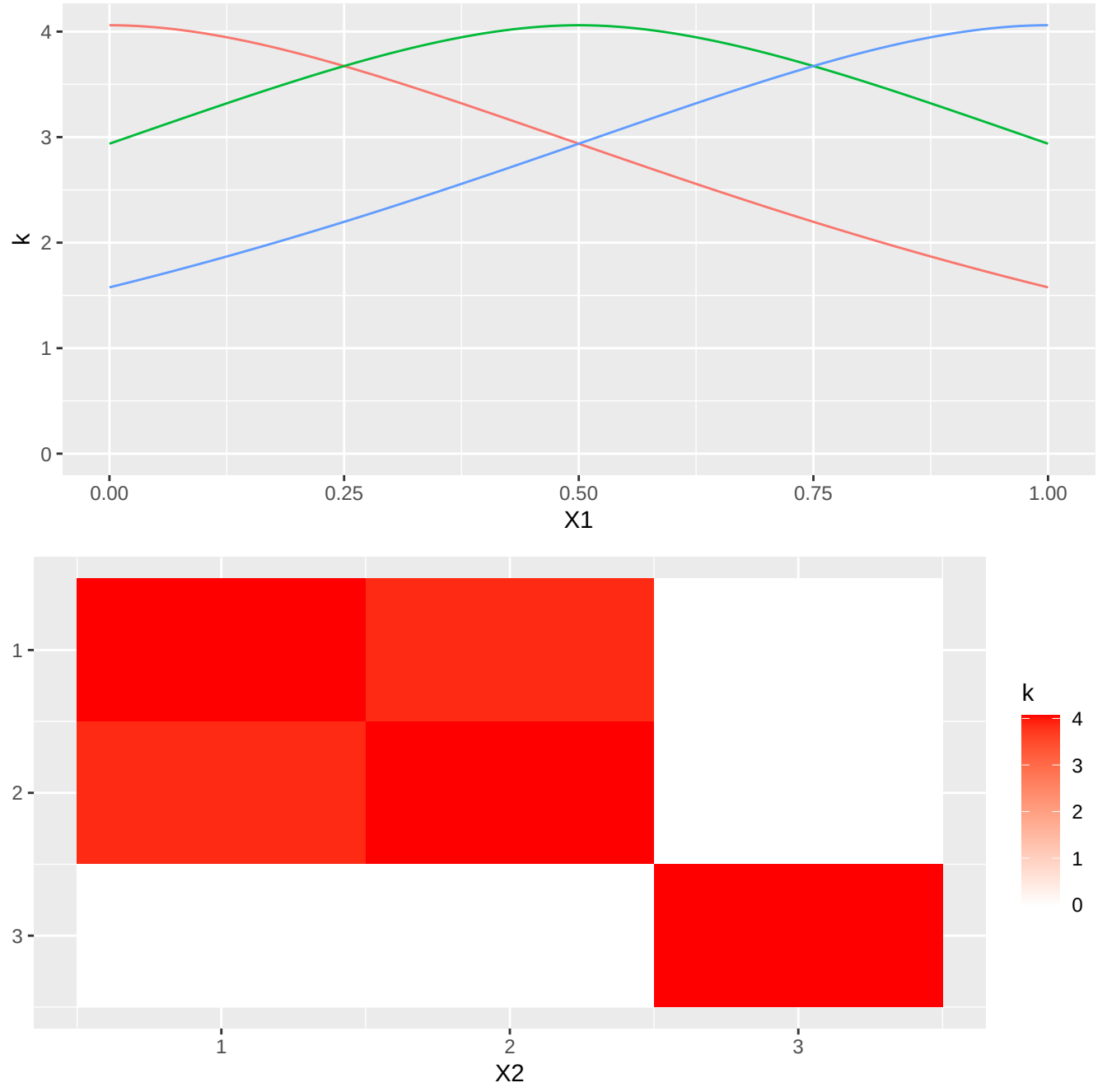

1.5
1.0
0.5
0.0
k
0.00
0.25
0.50
0.75
1.00
X1
1
2
3
X2
k
1.6
1.2
0.8
0.4
0.0

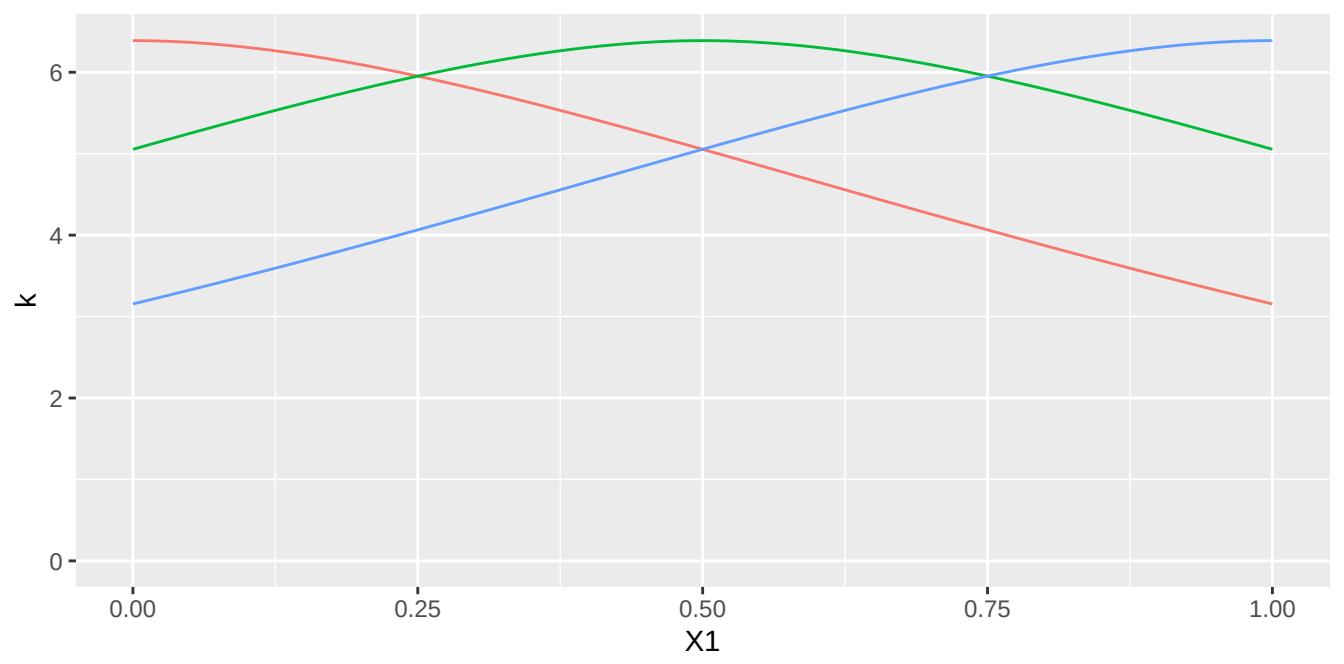

k
75
50
25
0
0.00
0.25
0.50
0.75
1.00
X1


1
2
3
1
2
3
X2
k
80
60
40
20
0


4
3
2
1
0
k
0.00
0.25
0.50
0.75
1.00
X1


1
2
3
1
2
3
X2
k
4
3
2
1
0


4
3
2
1
0
k
0.00
0.25
0.50
0.75
1.00
X1
1
2
3
X2
k
4
3
2
1
0


6
4
2
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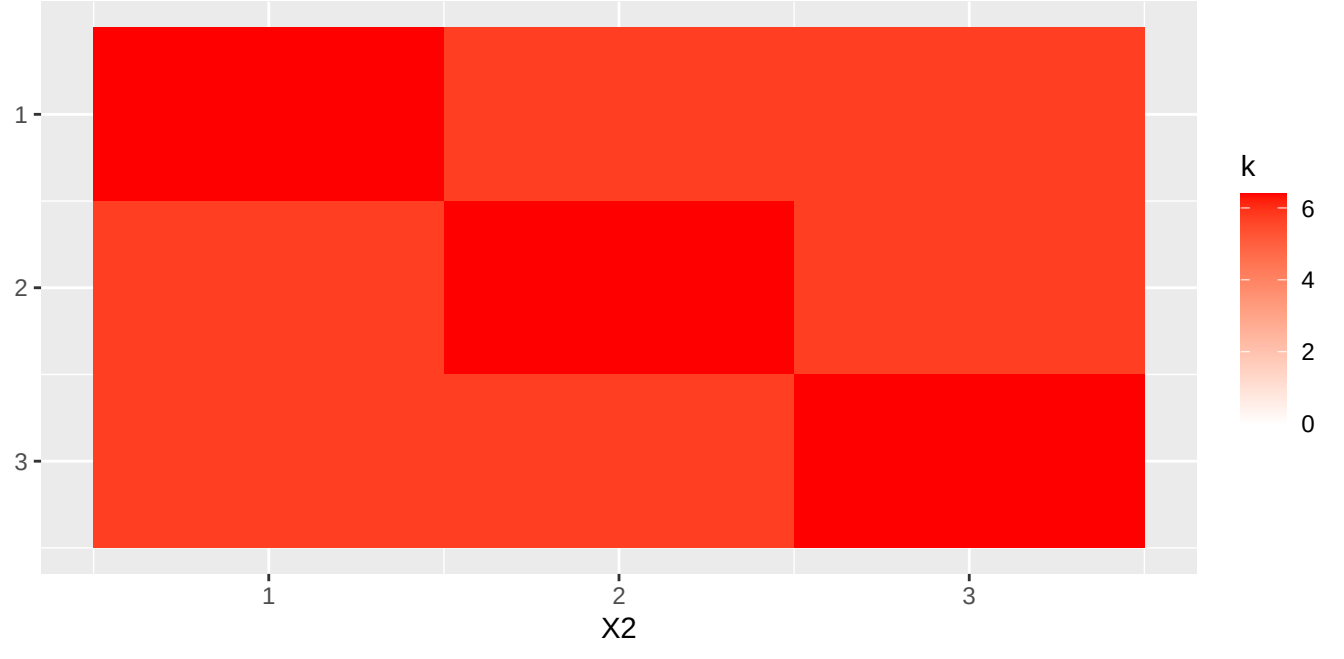
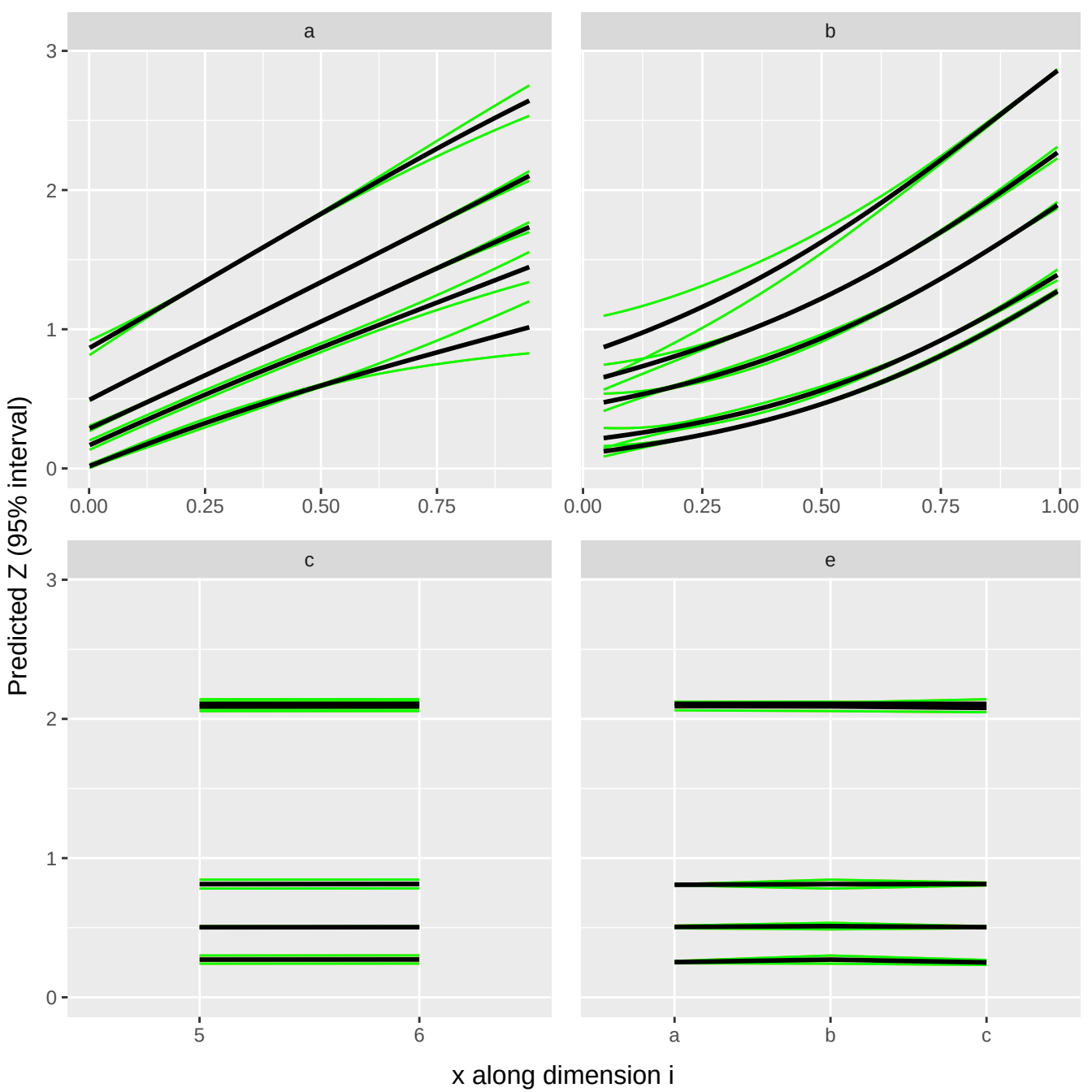
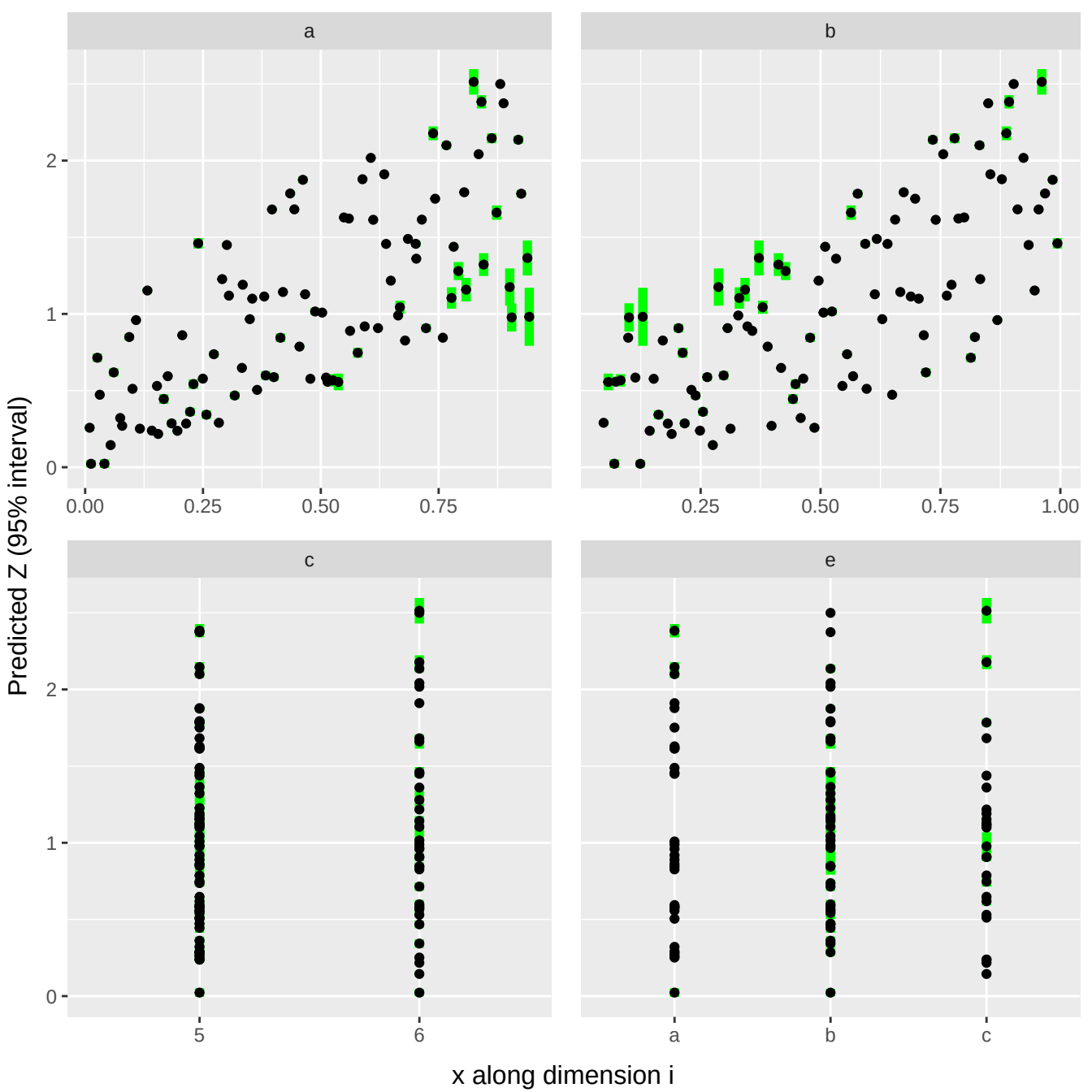
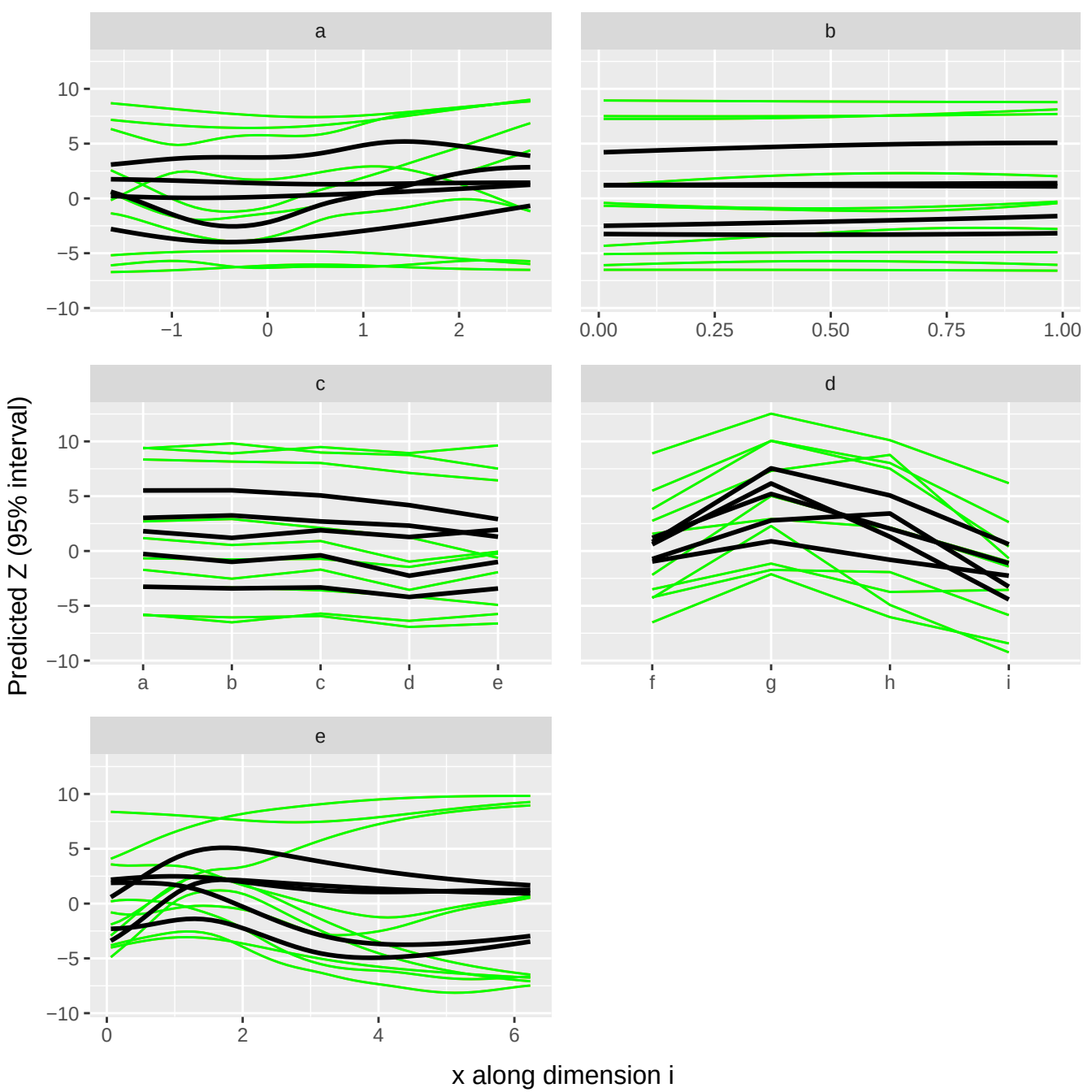
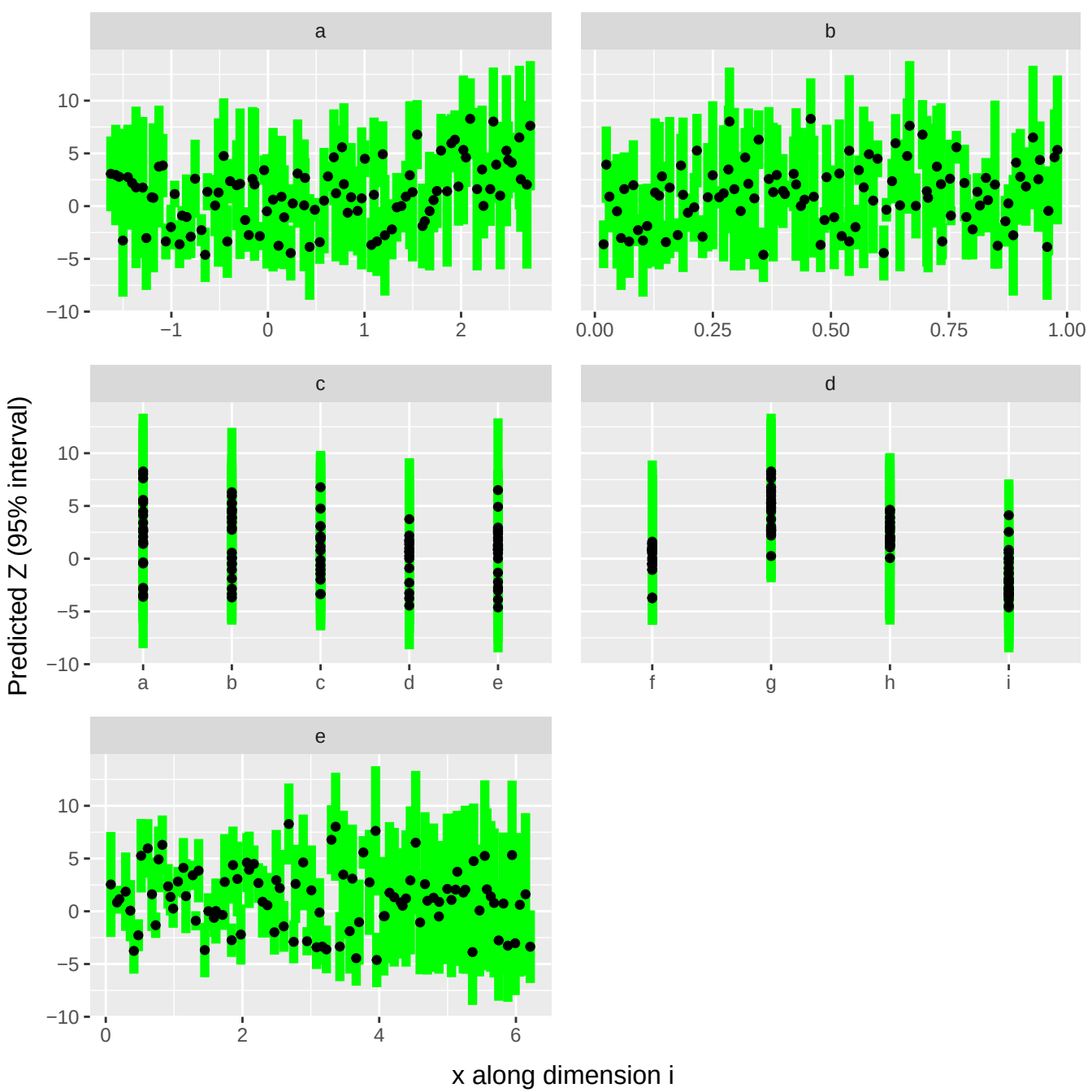
k
0.00
0.25
0.50
0.75
1.00
X1

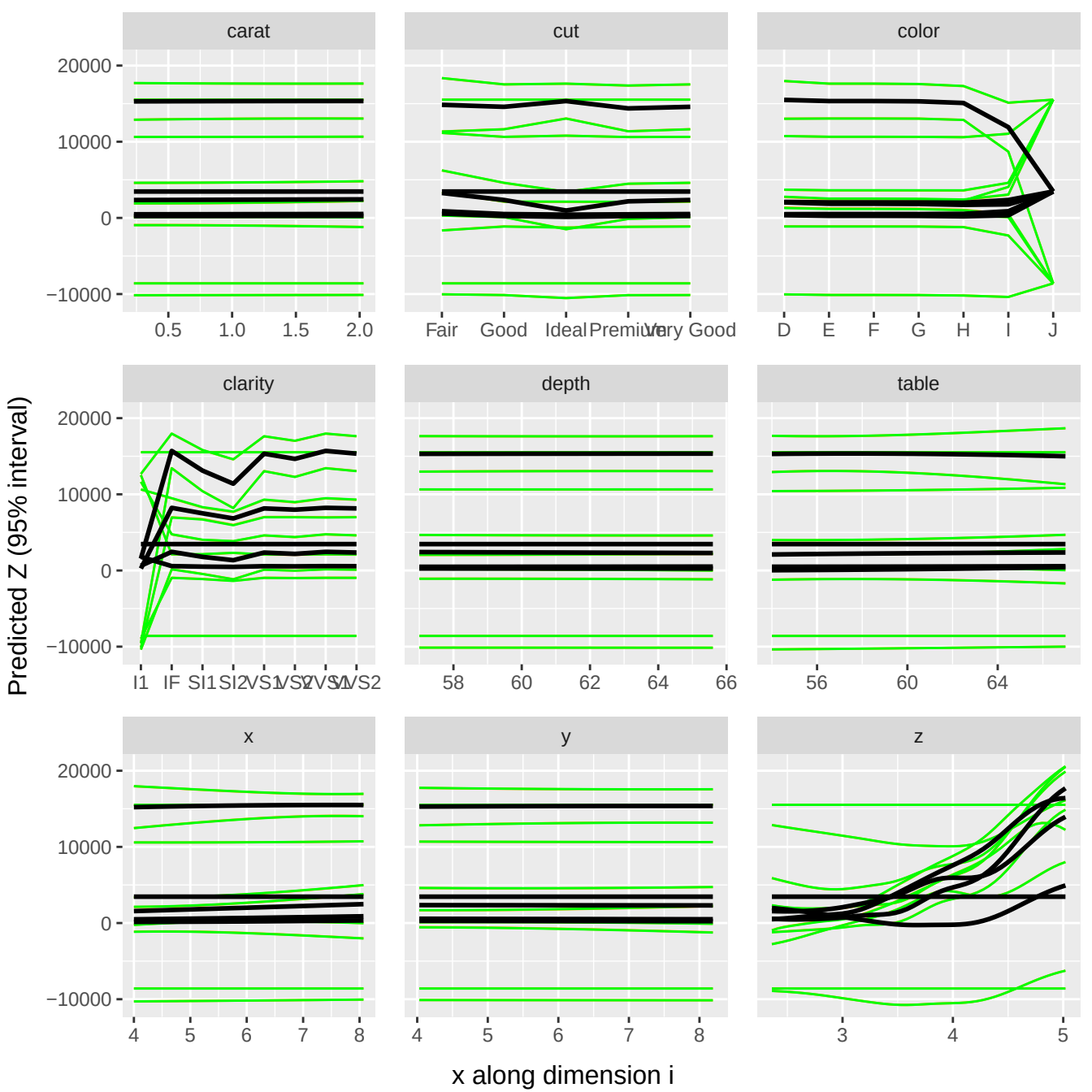

1
2
3
1
2
3
X2
k
6
4
2
0

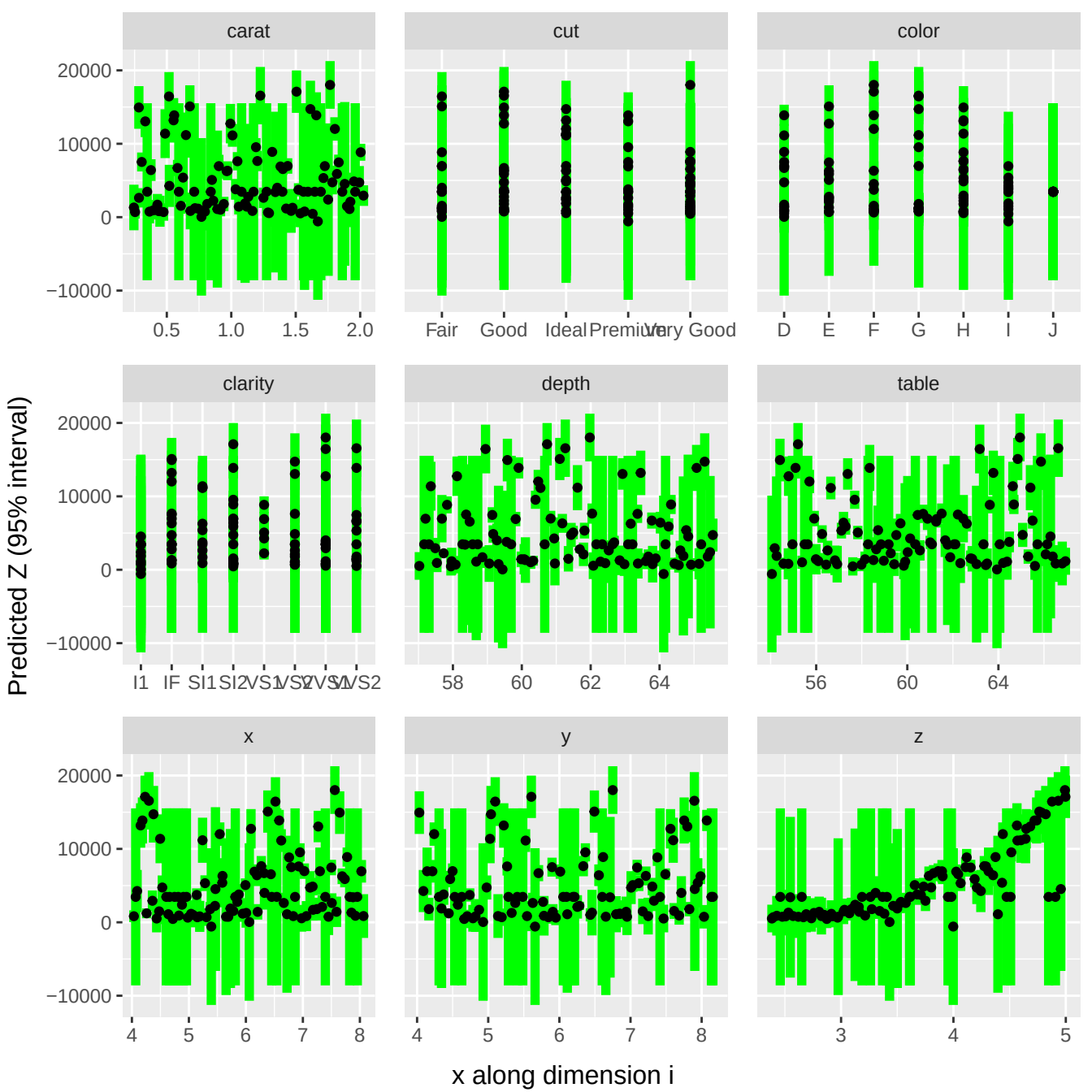

a
b
c
e
Predicted Z (95% interval)
x along dimension i
0
1
2
3
0.00
0.25
0.50
0.75
1.00
5
6
a
b
c


a
b
c
e
Predicted Z (95% interval)
x along dimension i
0
1
2
0.00
0.25
0.50
0.75
1.00
5
6
a
b
c


a
b
c
d
e
Predicted Z (95% interval)
x along dimension i
10
5
0
−5
−10
−1
0
1
2
0.00
0.25
0.50
0.75
1.00
a
b
c
d
e
f
g
h
i
0
2
4
6


a
b
c
d
e
Predicted Z (95% interval)
x along dimension i


carat
cut
color
clarity
depth
table
x
y
z
Predicted Z (95% interval)
x along dimension i
20000
10000
0
−10000
0.5
1.0
1.5
2.0
Fair
Good
Ideal
Premium
Very Good
D
E
F
G
H
I
J
I1
IF
SI1
SI2
VS1
VS2
VVS1
VVS2
58
60
62
64
66
56
4
5
6
7
8
3


carat
cut
color
clarity
depth
table
x
y
z
Predicted Z (95% interval)
x along dimension i
20000
10000
0
−10000
0.5
1.0
1.5
2.0
Fair
Good
Ideal
Premium
Very Good
D
E
F
G
H
I
J
I1
IF
SI1
SI2
VS1
VS2
VVS1
VVS2
58
60
62
64
56
60
64
4
5
6
7
8
3
4
5