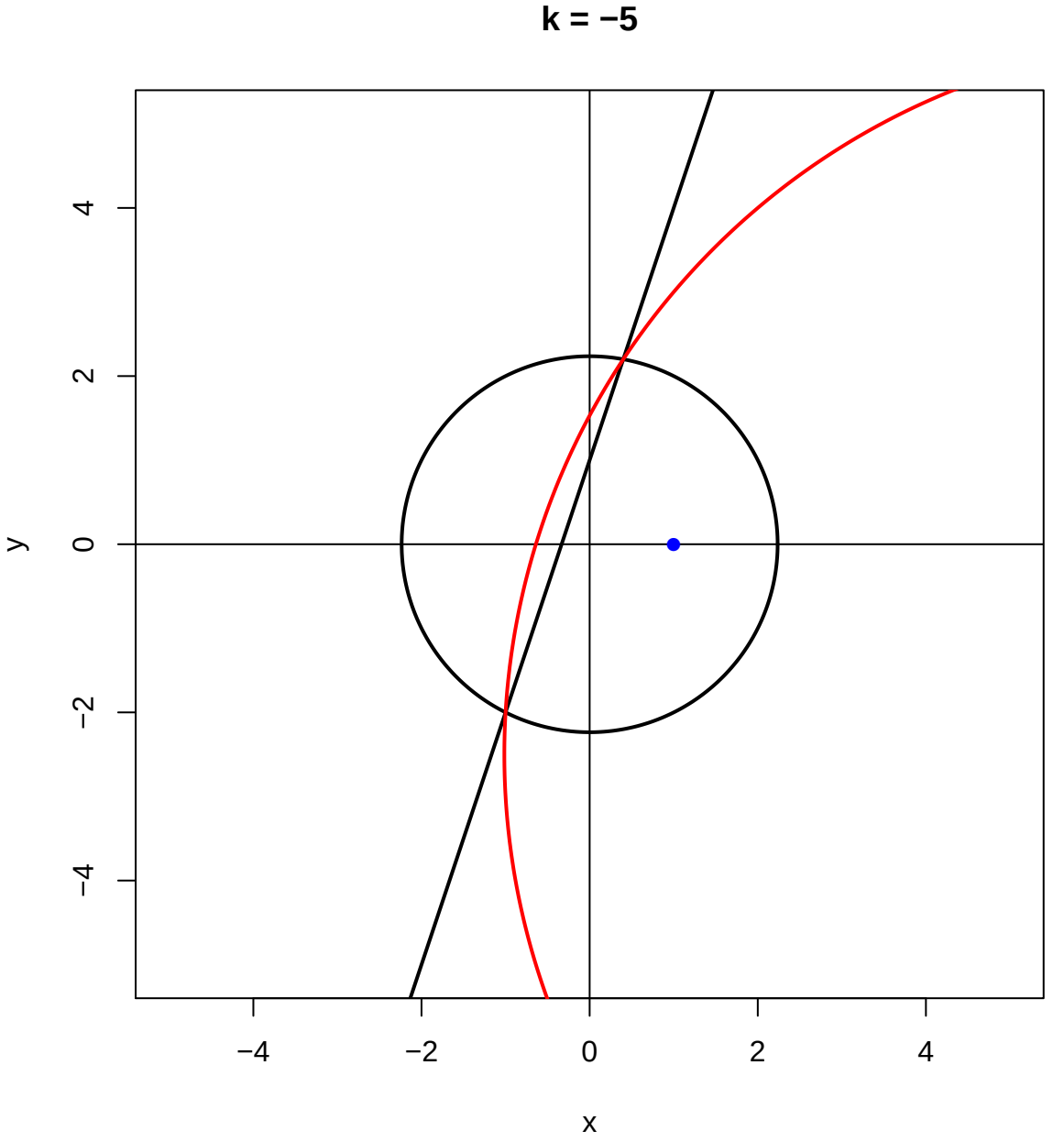
k = −5
y
x
4
2
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−2
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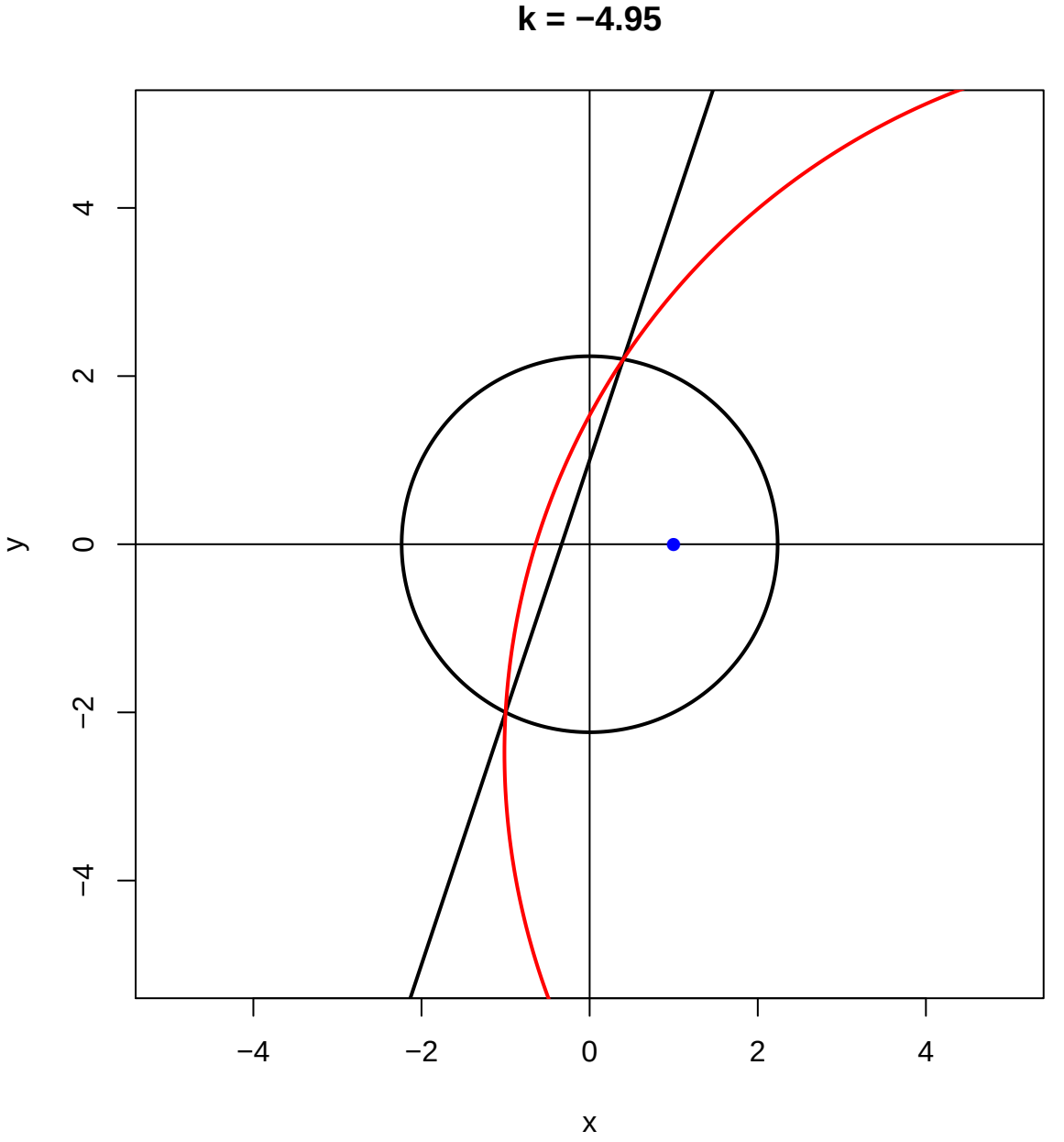
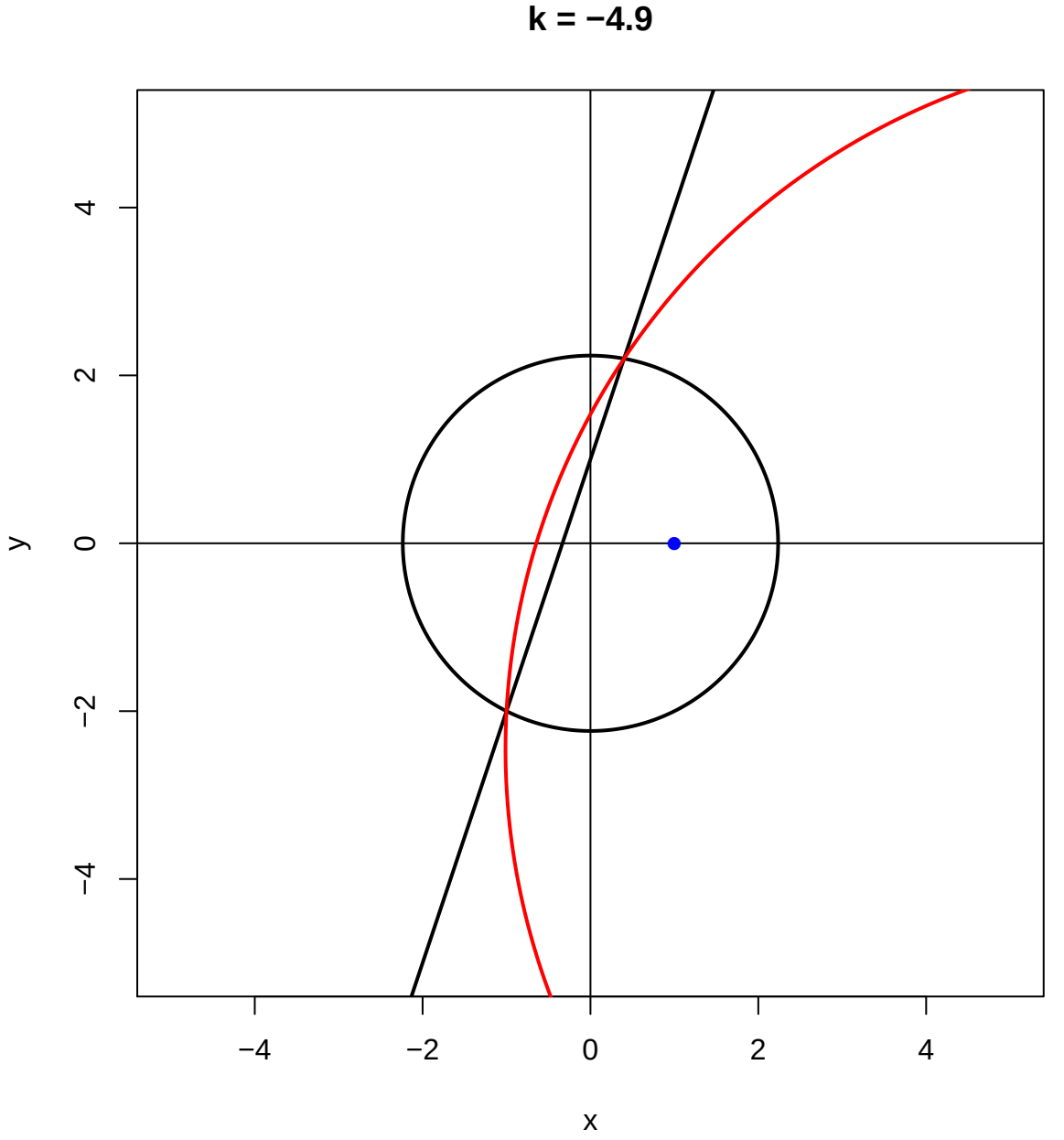
−4
−2
0
2
4


k = −4.95
y
x
4
2
0
−2
−4
−4
−2
0
2
4


k = −4.9
y
x
4
2
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−2
−4
−4
−2
0
2
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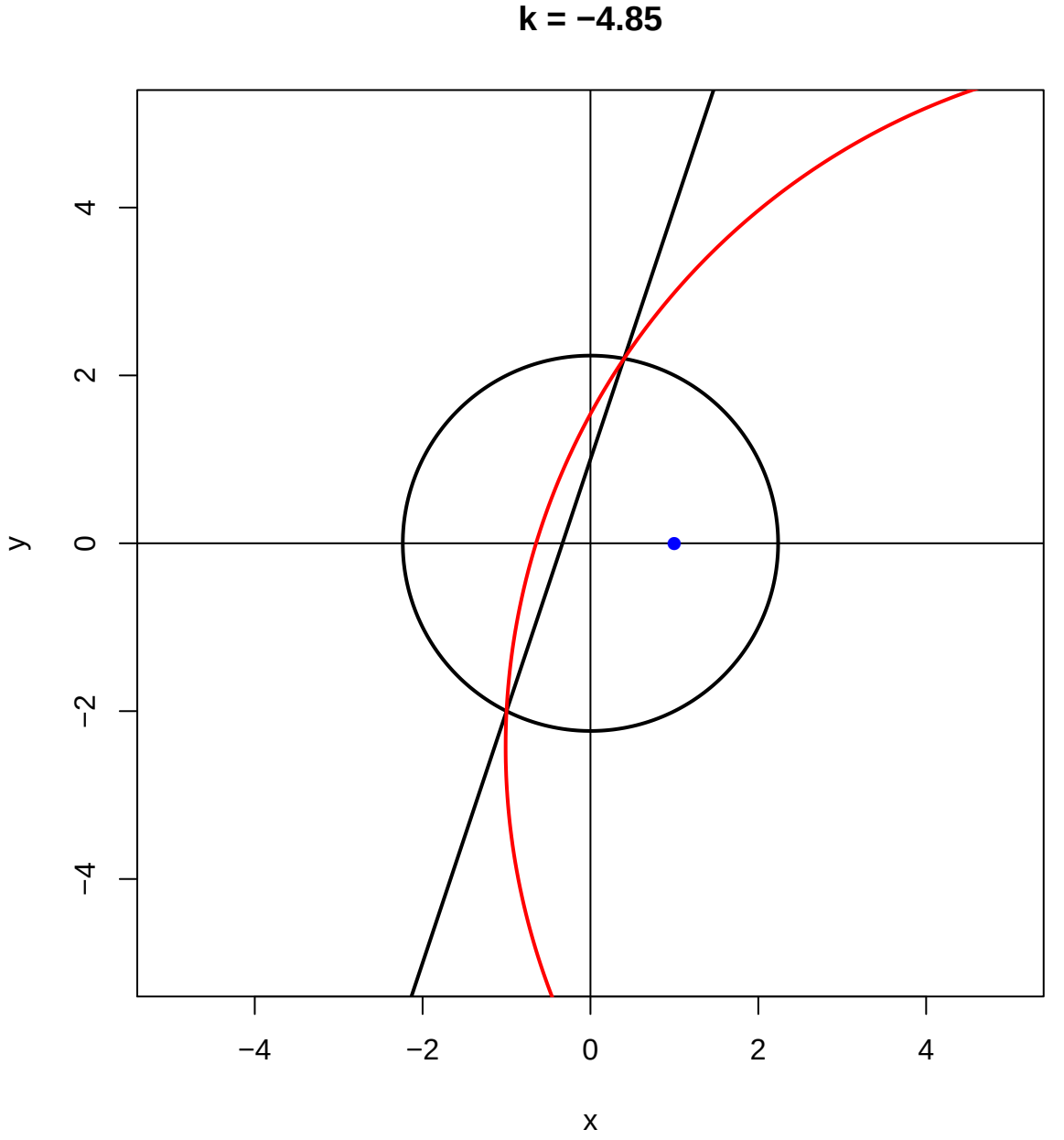
k = −4.85
y
x
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2
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−2
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−2
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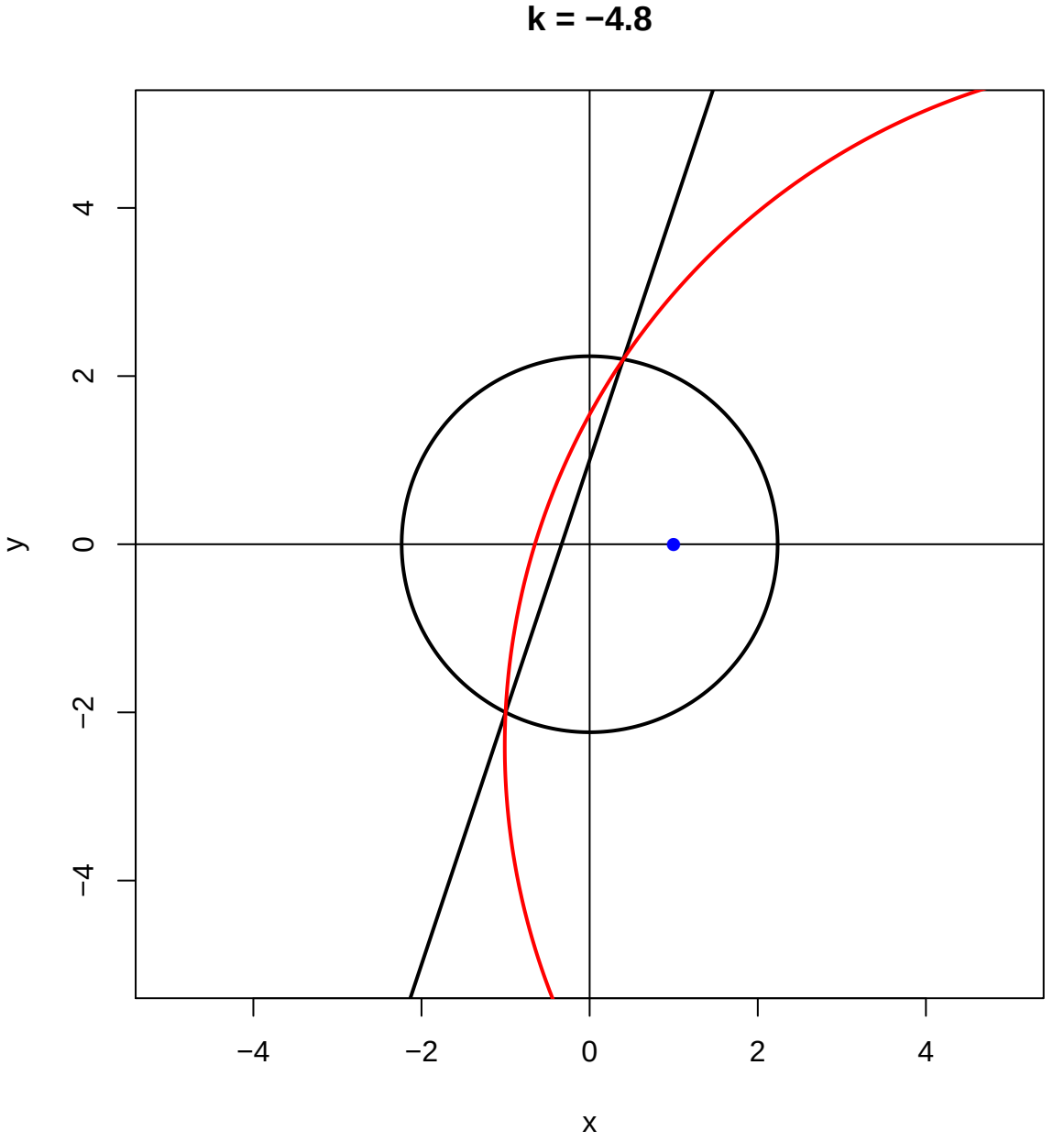
2
4


k = −4.8
y
x
4
2
0
−2
−4
−4
−2
0
2
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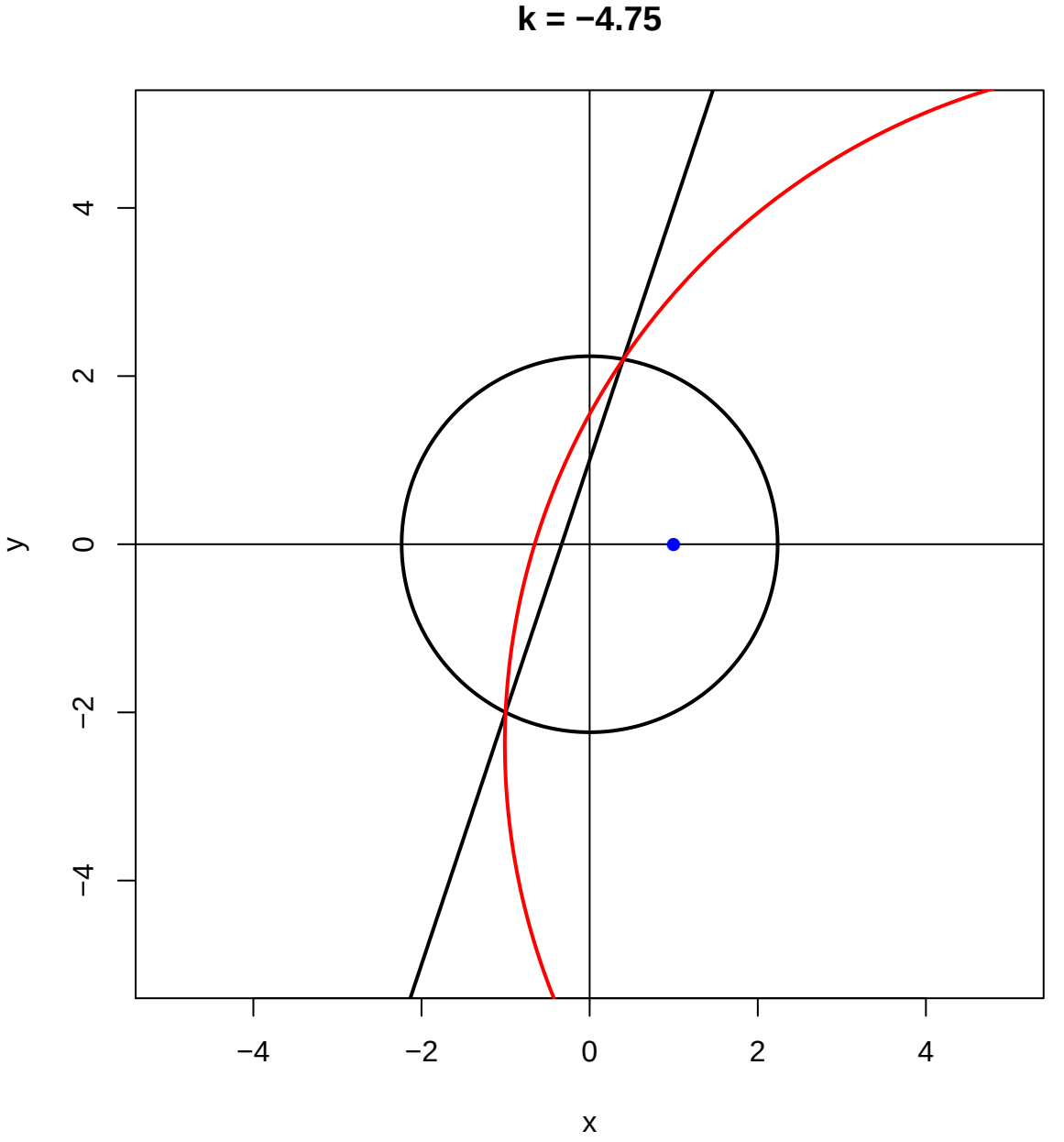
k = −4.75
y
x
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2
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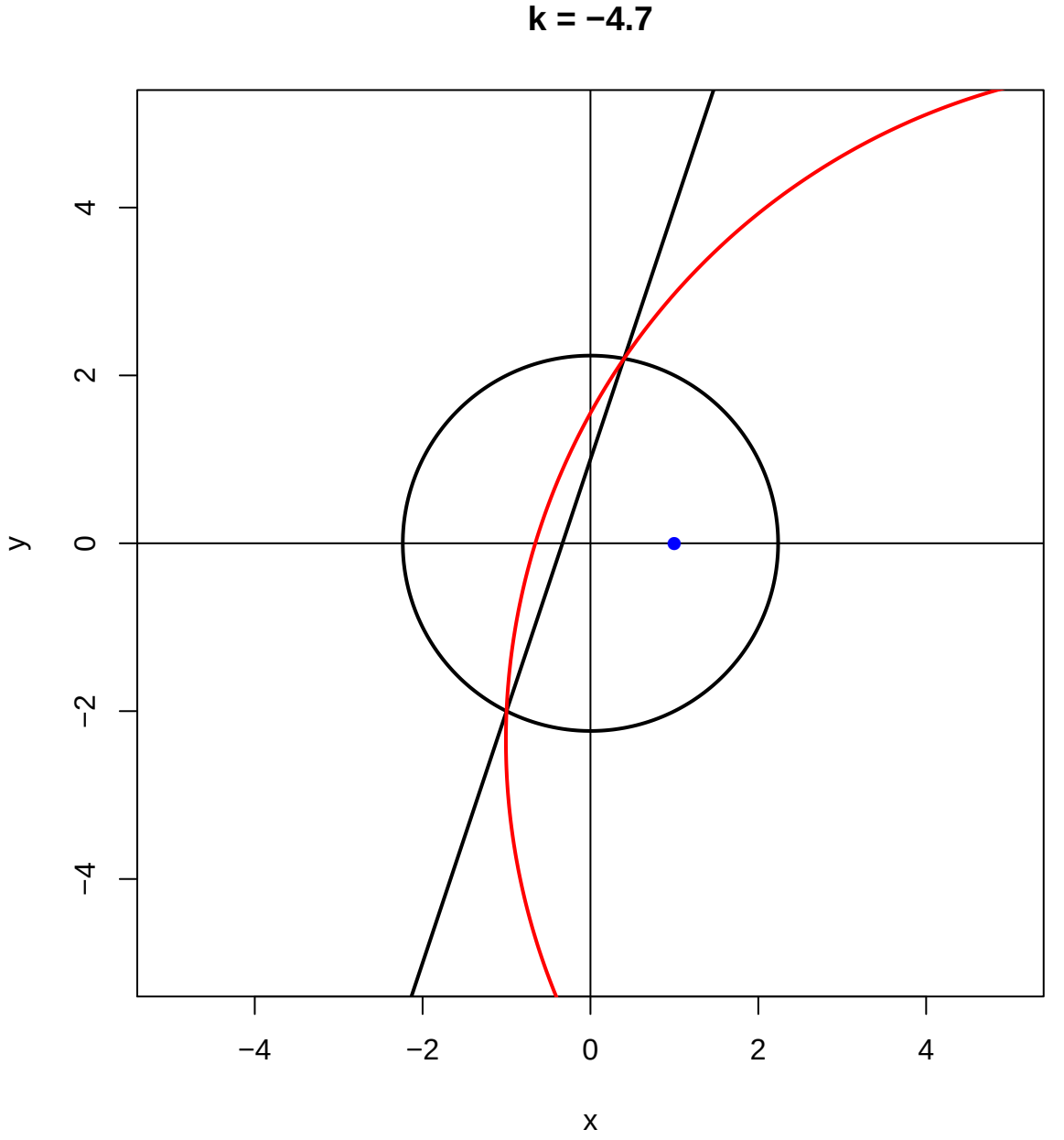
−2
−4
−4
−2
0
2
4


k = −4.7
y
x
4
2
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−2
−4
−4
−2
0
2
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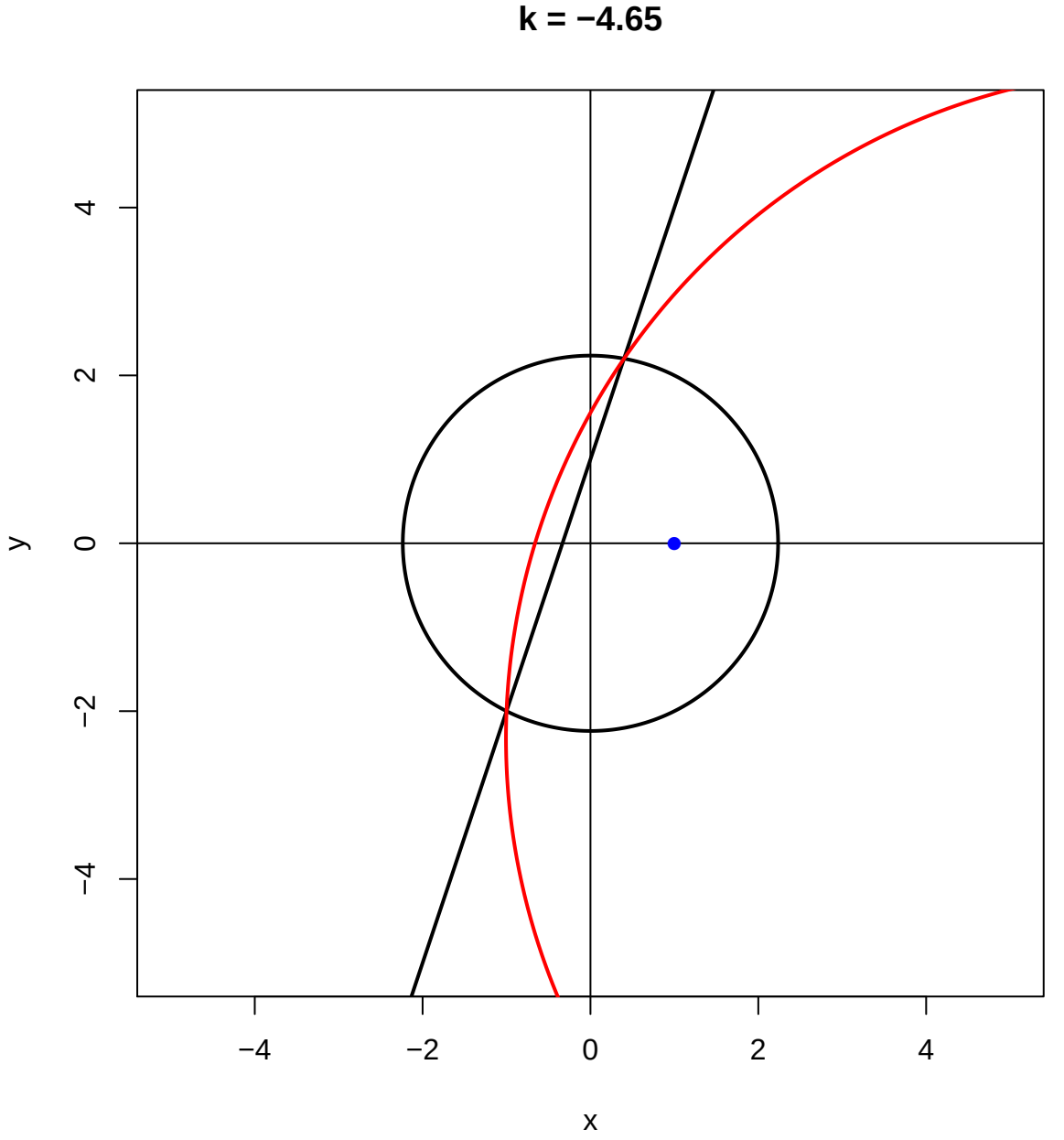
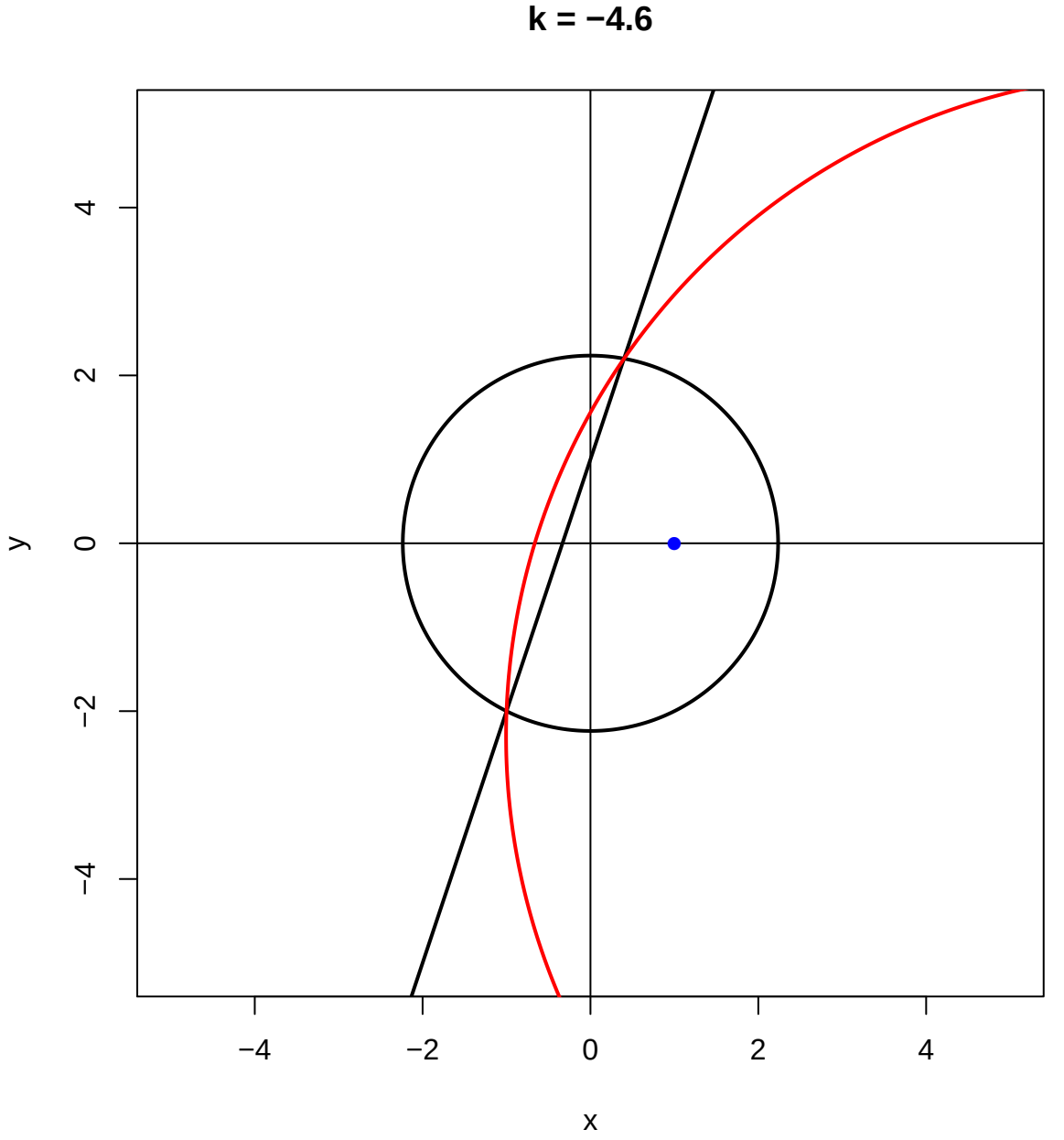

k = −4.65
y
x
4
2
0
−2
−4
−4
−2
0
2
4


k = −4.6
y
x
4
2
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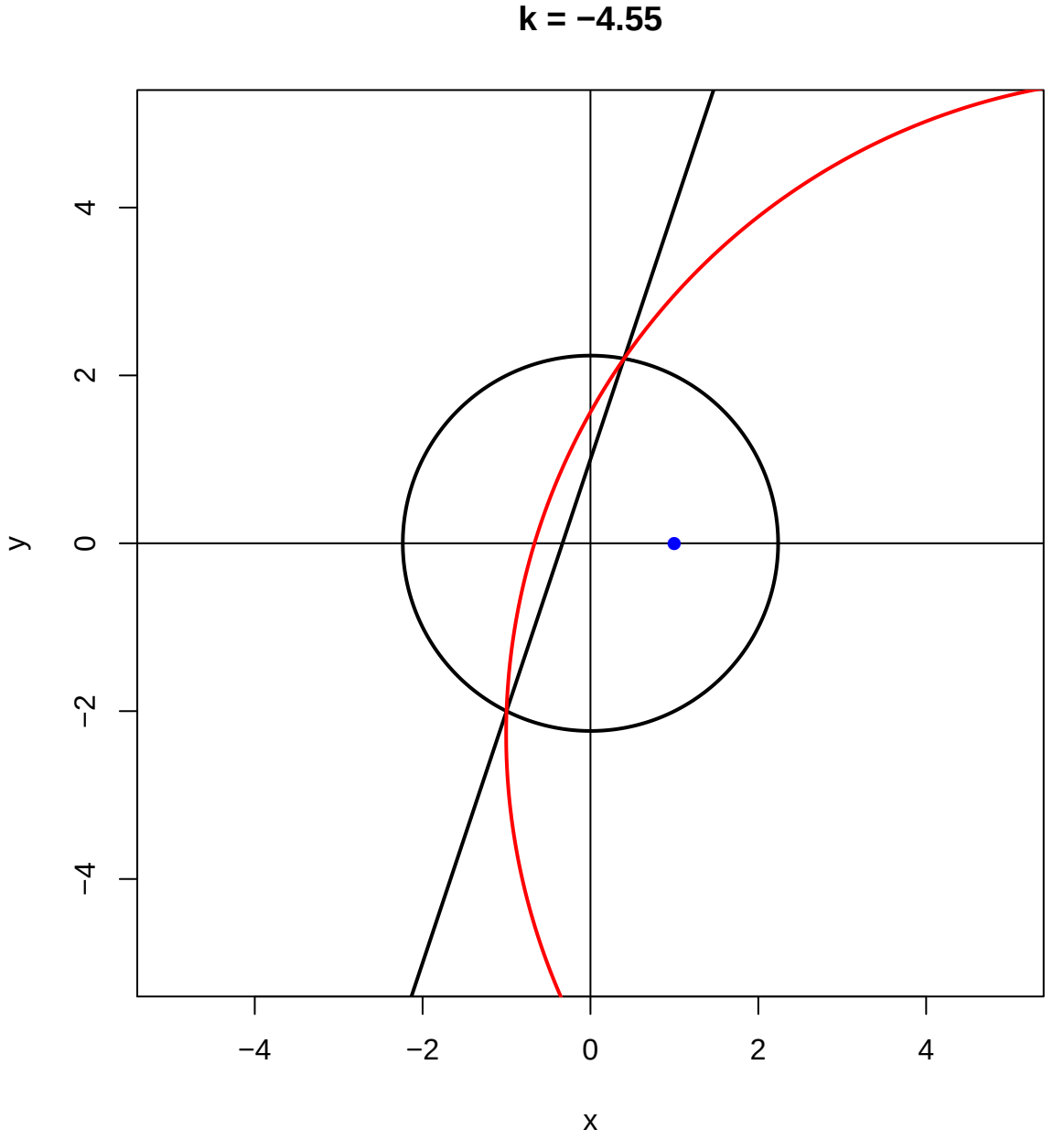
−2
−4
−4
−2
0
2
4


k = −4.55
y
x
4
2
0
−2
−4
−4
−2
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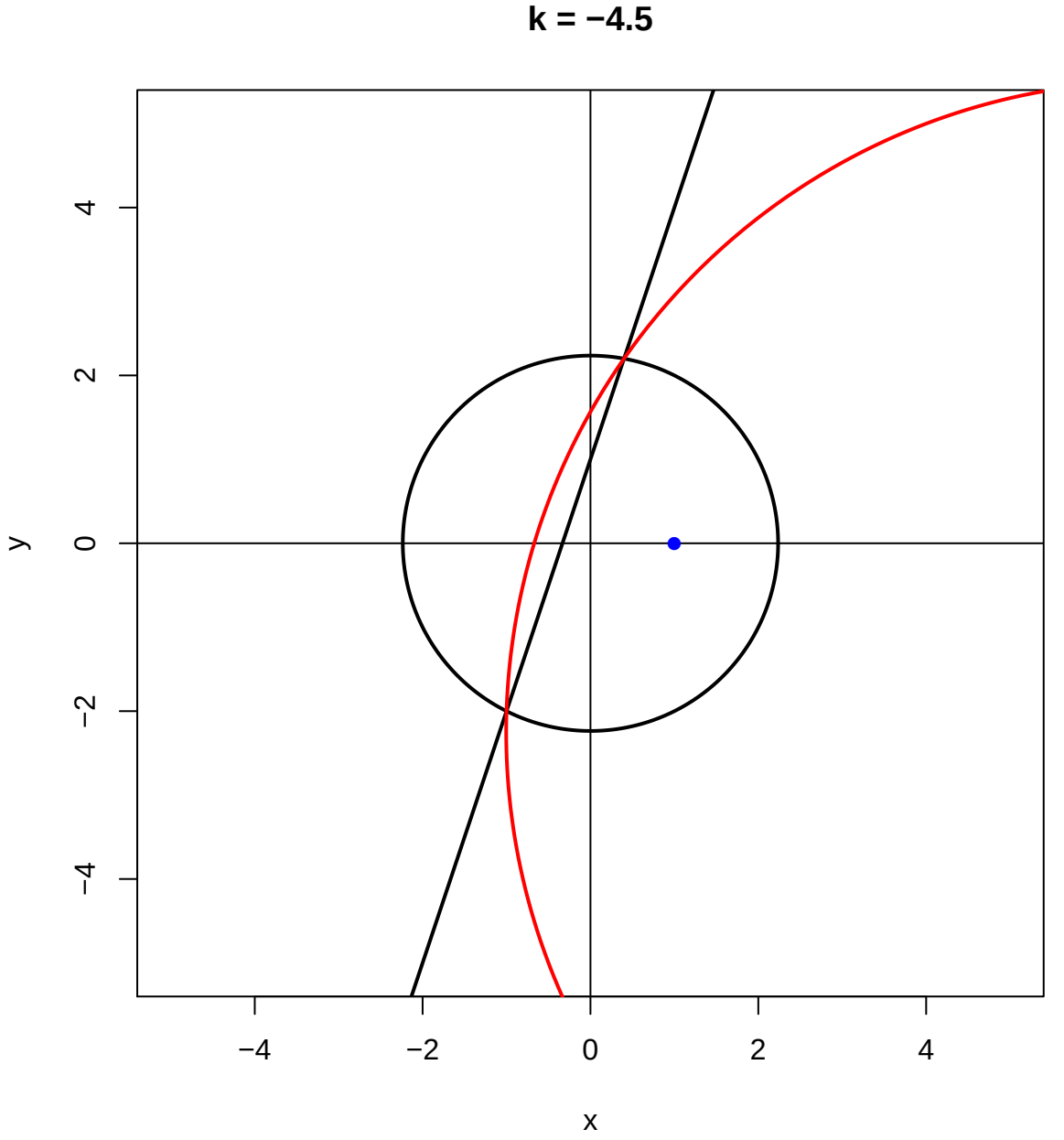
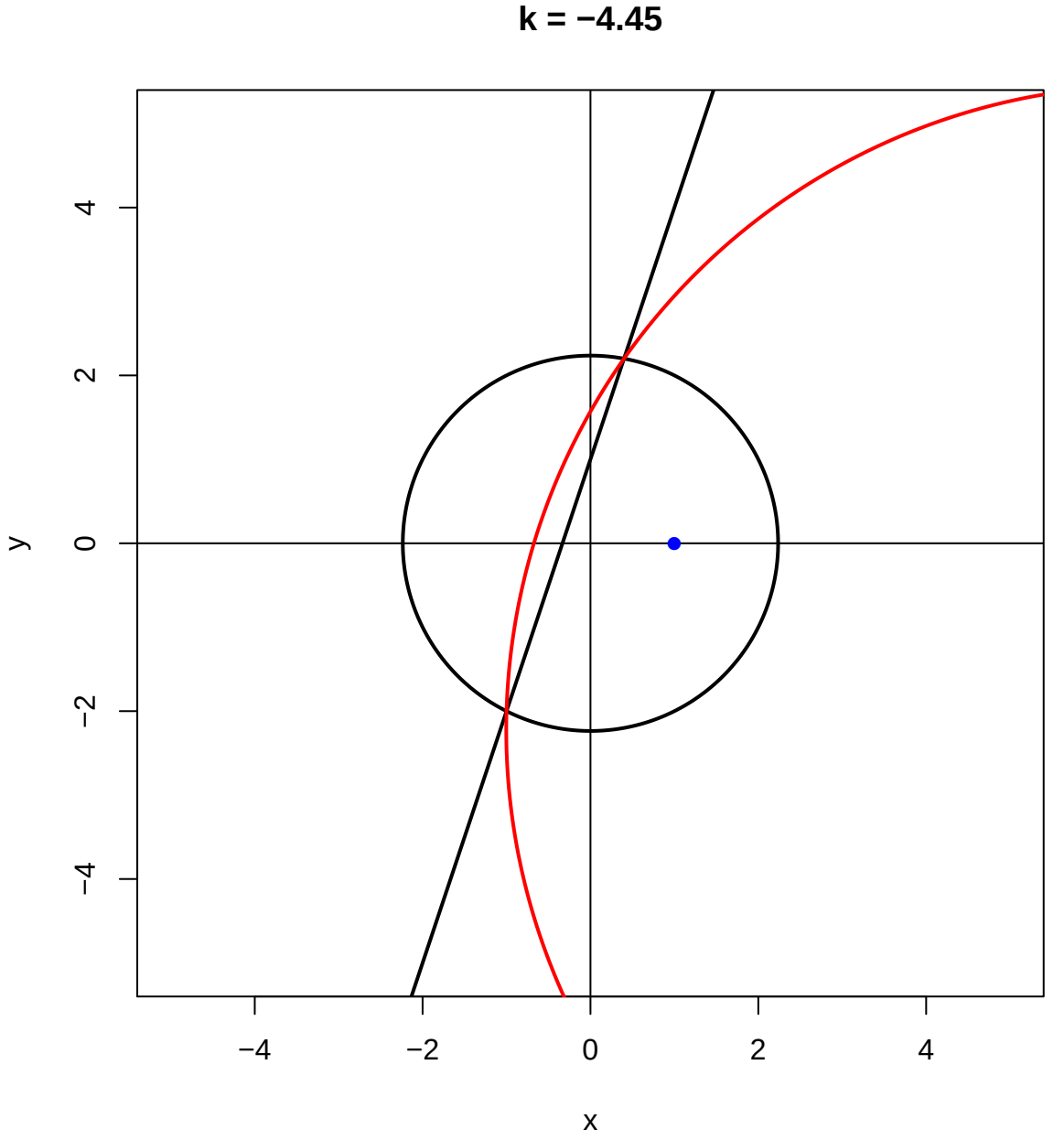
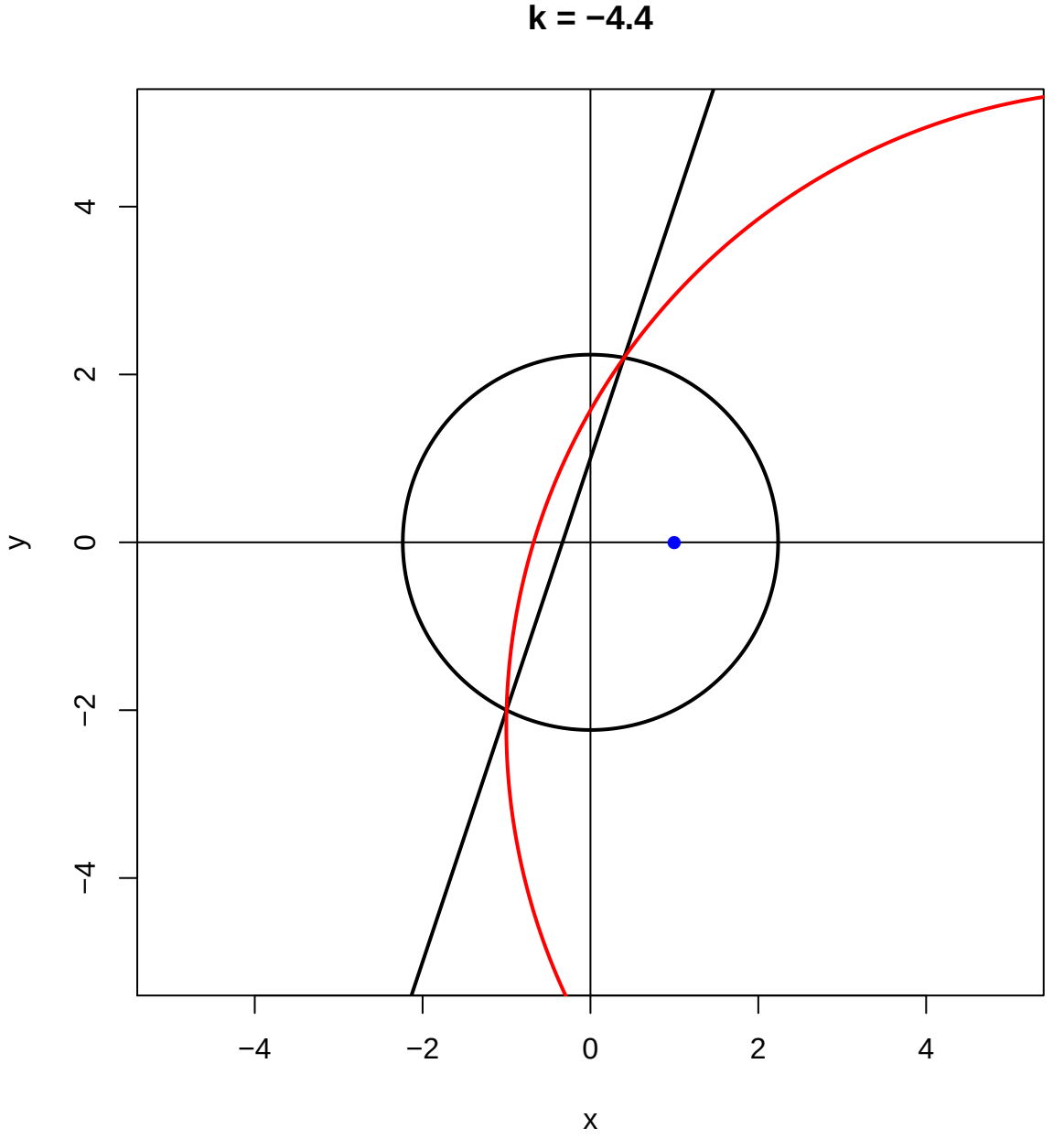
2
4


k = −4.5
y
x
4
2
0
−2
−4
−4
−2
0
2
4


k = −4.45
y
x
4
2
0
−2
−4
−4
−2
0
2
4


k = −4.4
y
x
4
2
0
−2
−4
−4
−2
0
2
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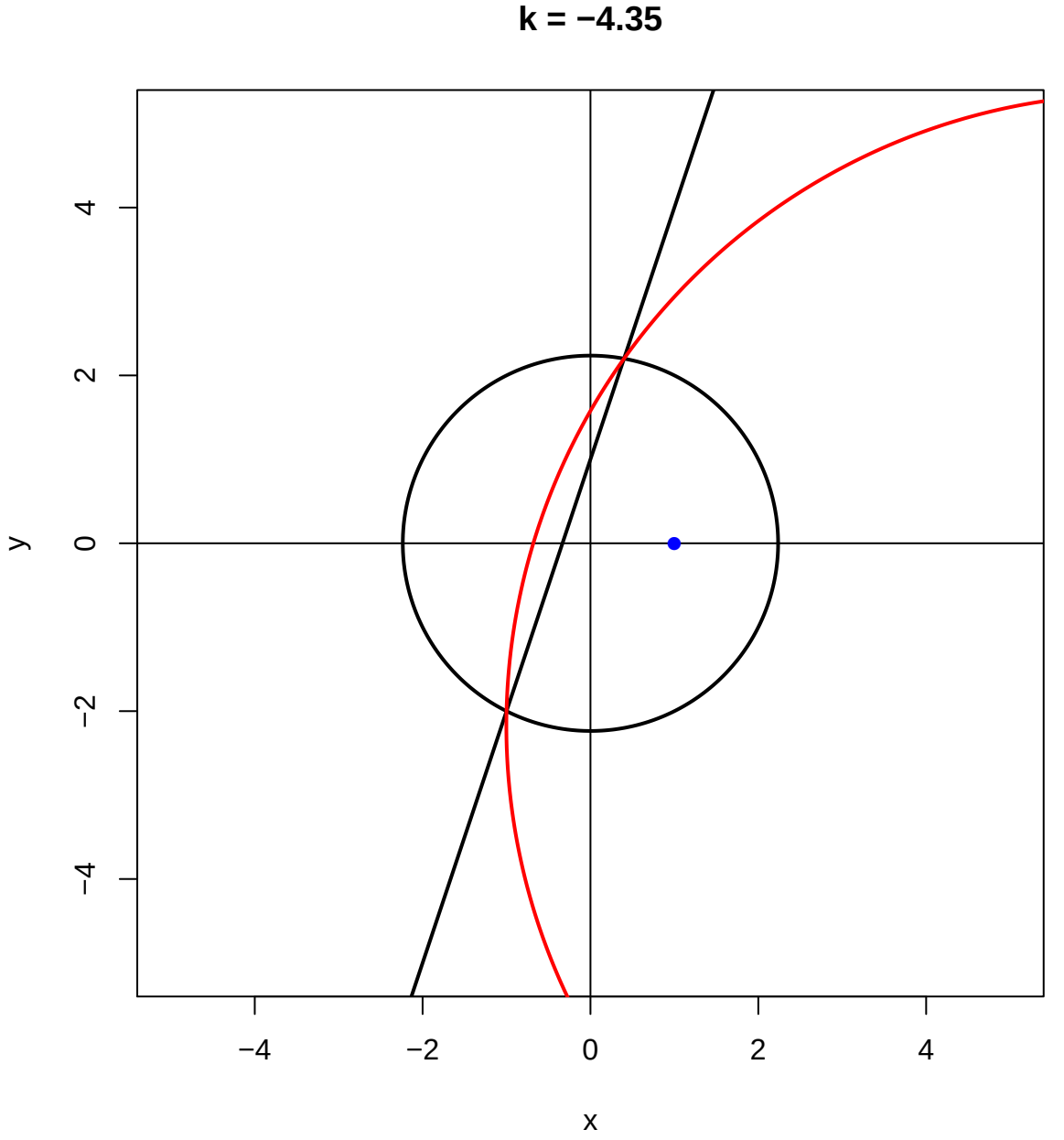
k = −4.35
y
x
4
2
0
−2
−4
−4
−2
0
2
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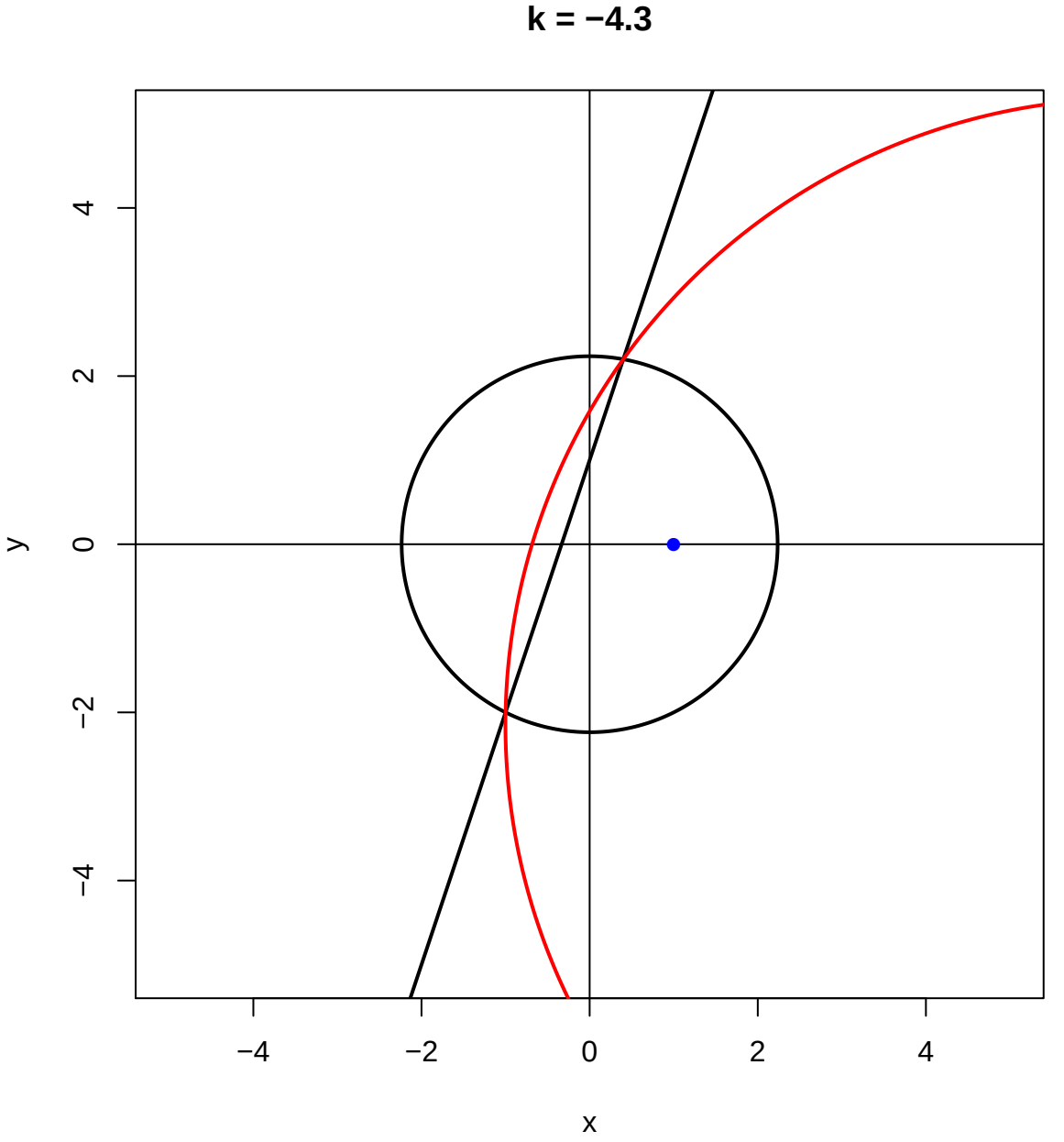
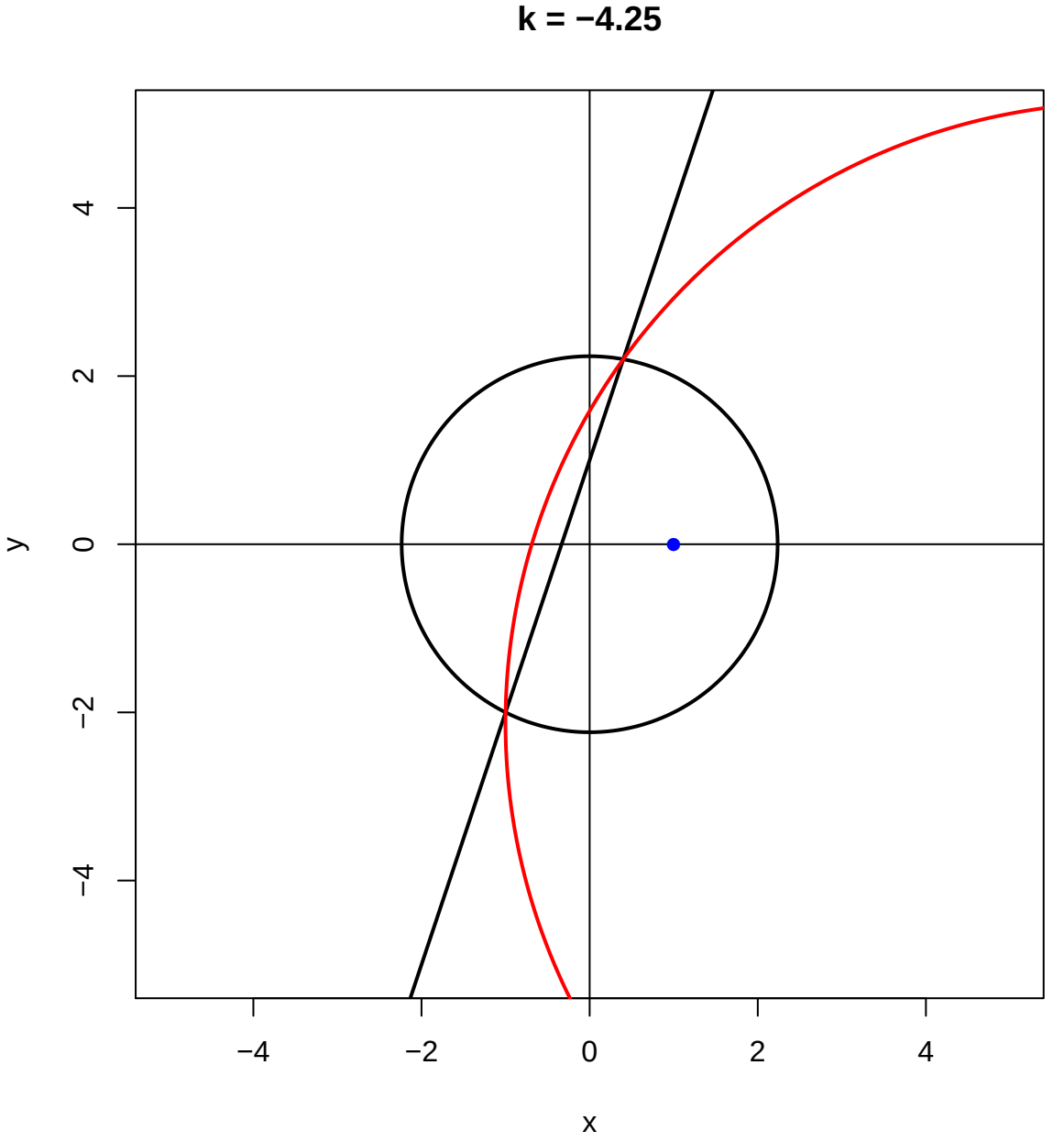
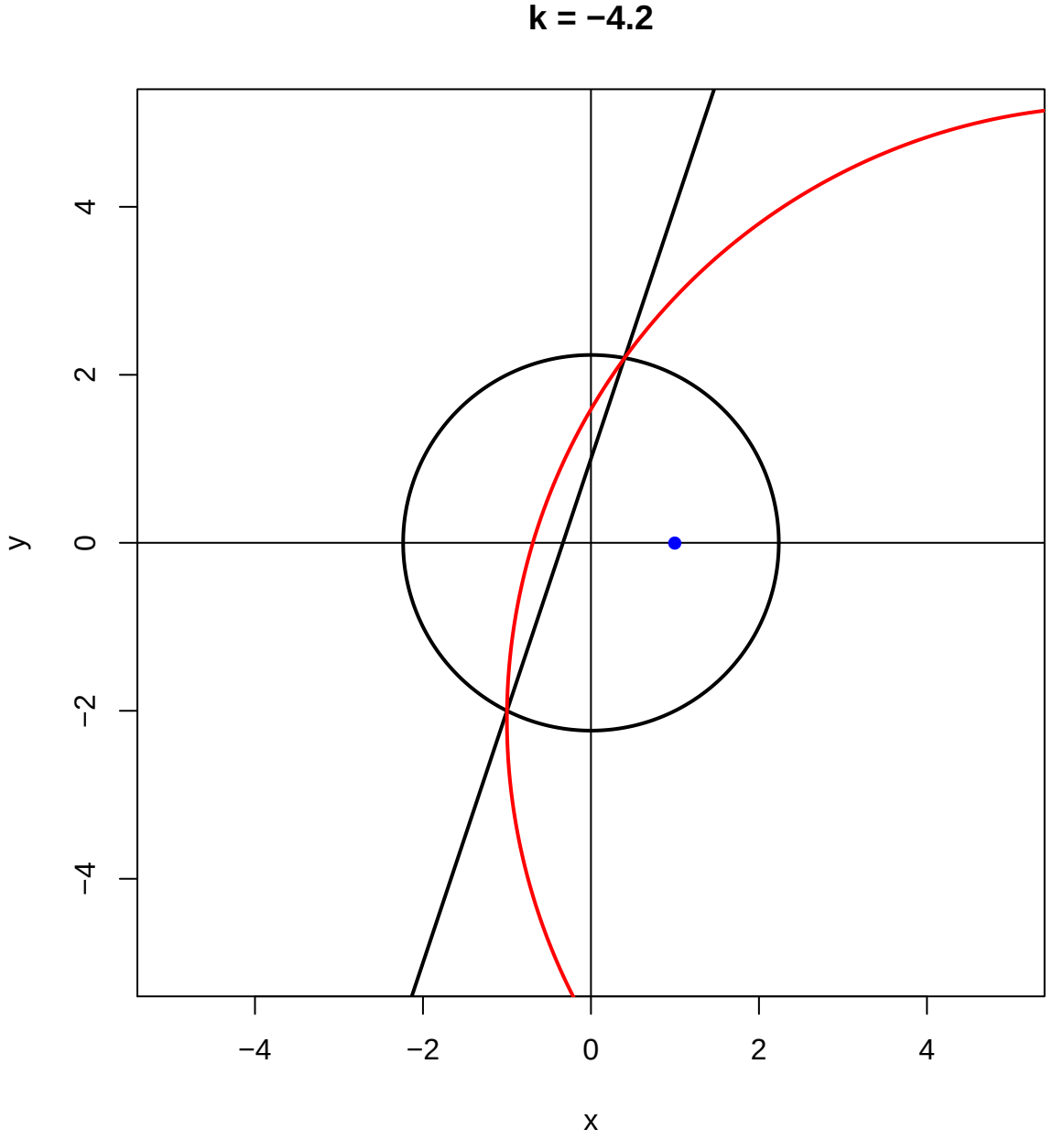

k = −4.3
y
x
4
2
0
−2
−4
−4
−2
0
2
4


k = −4.25
y
x
4
2
0
−2
−4
−4
−2
0
2
4


k = −4.2
y
x
4
2
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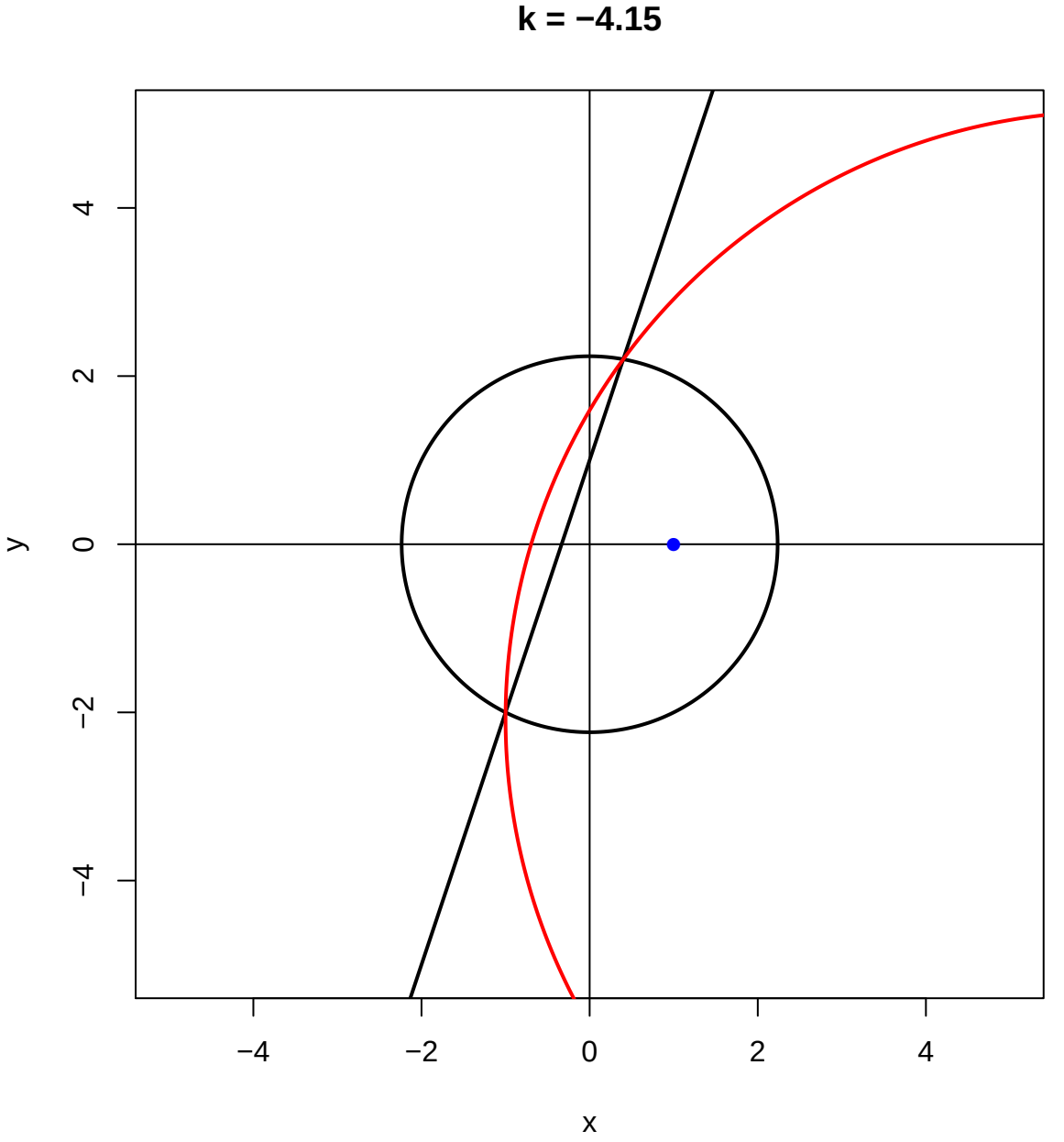
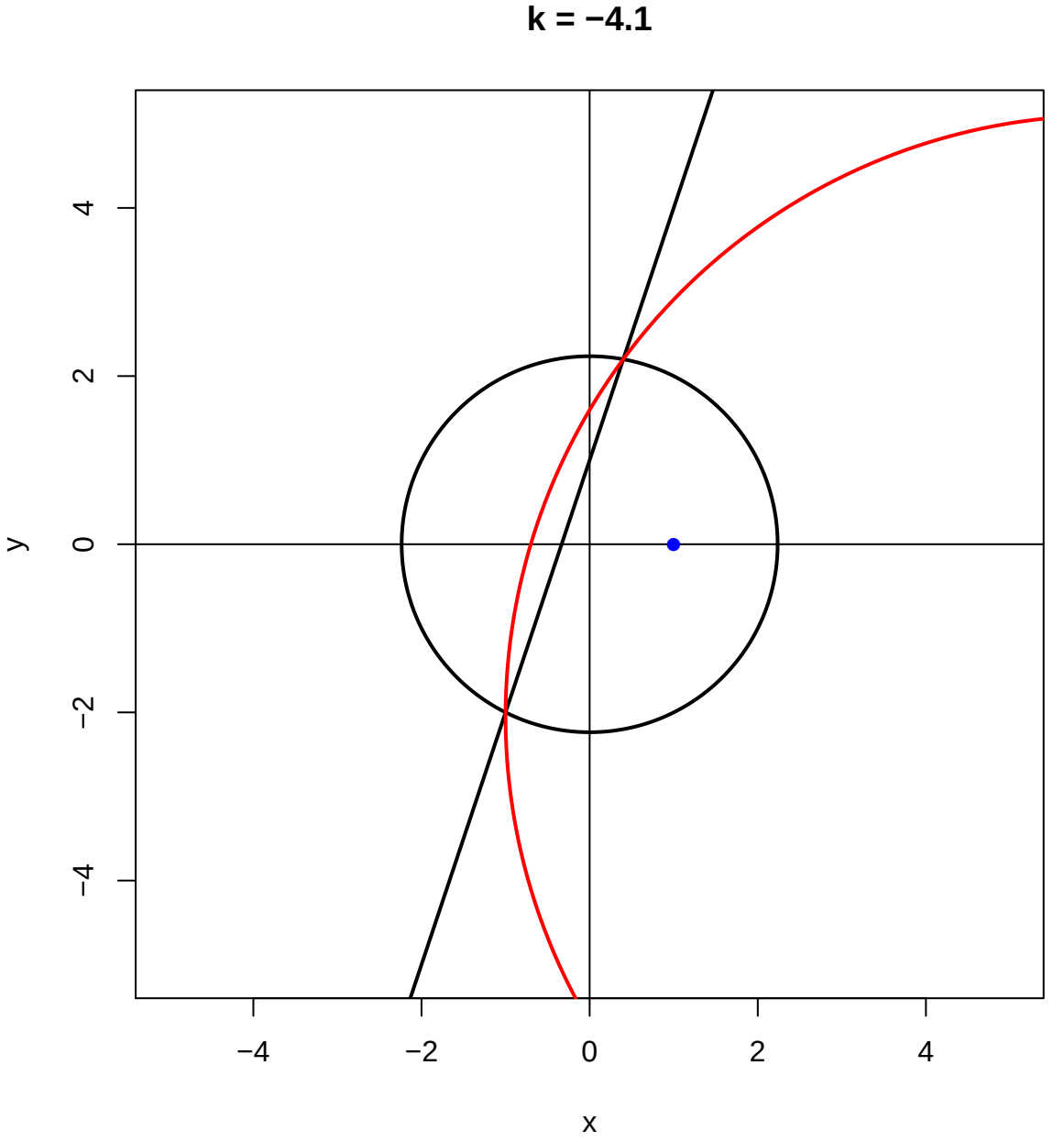
−2
−4
−4
−2
0
2
4


k = −4.15
y
x
4
2
0
−2
−4
−4
−2
0
2
4


k = −4.1
y
x
4
2
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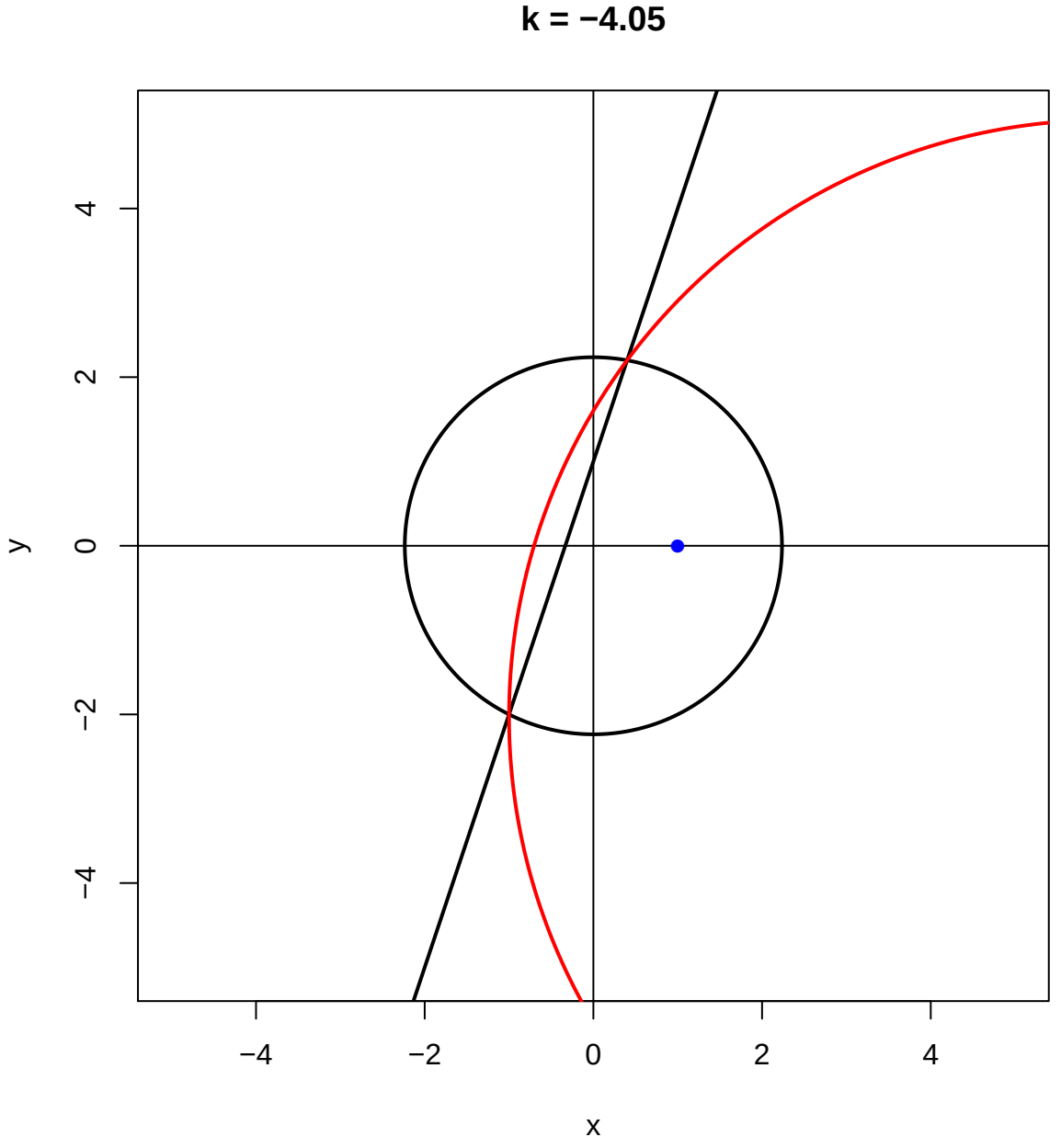
−2
−4
−4
−2
0
2
4


k = −4.05
y
x
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−2
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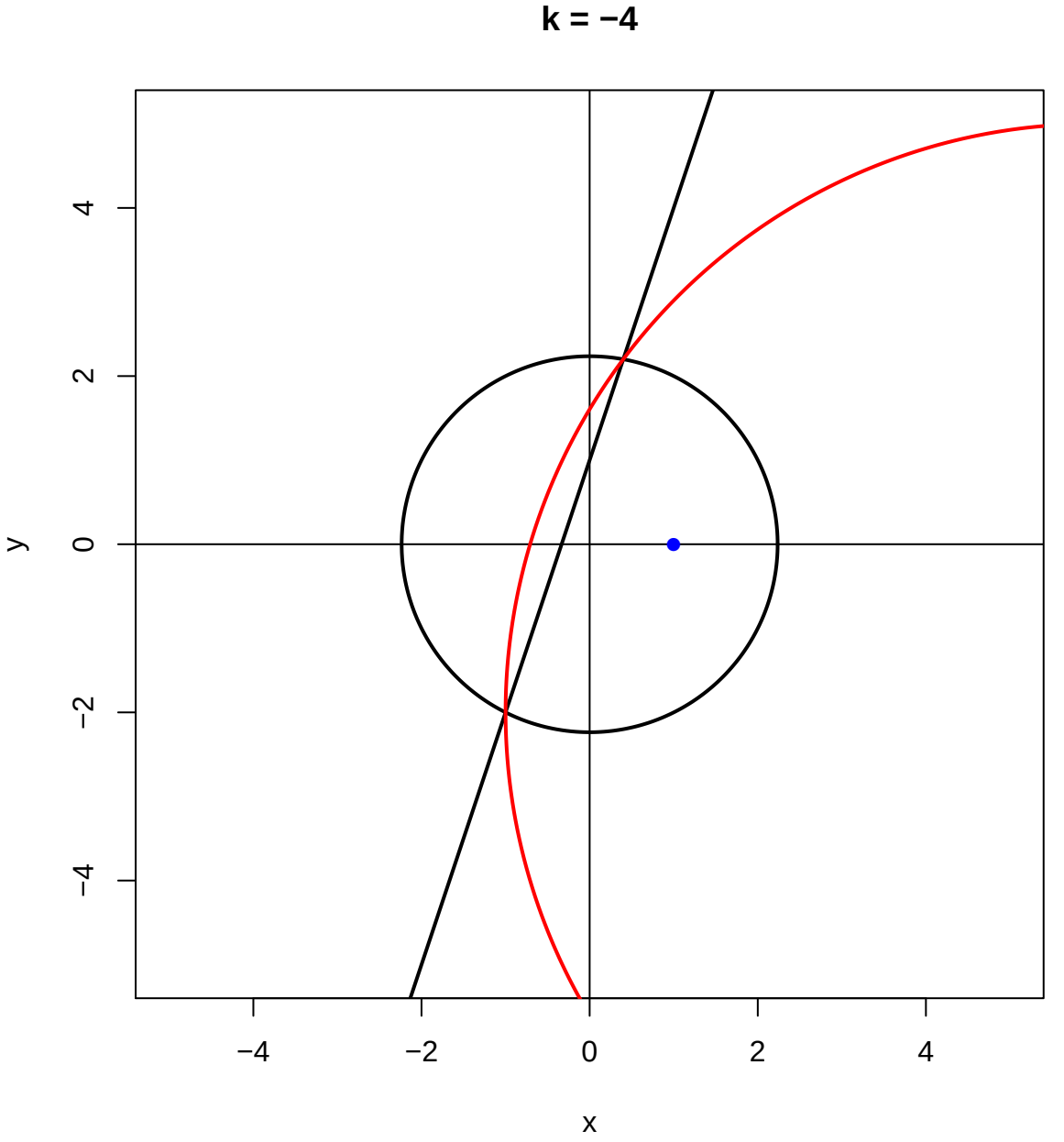
−4
−2
0
2
4


k = −4
y
x
4
2
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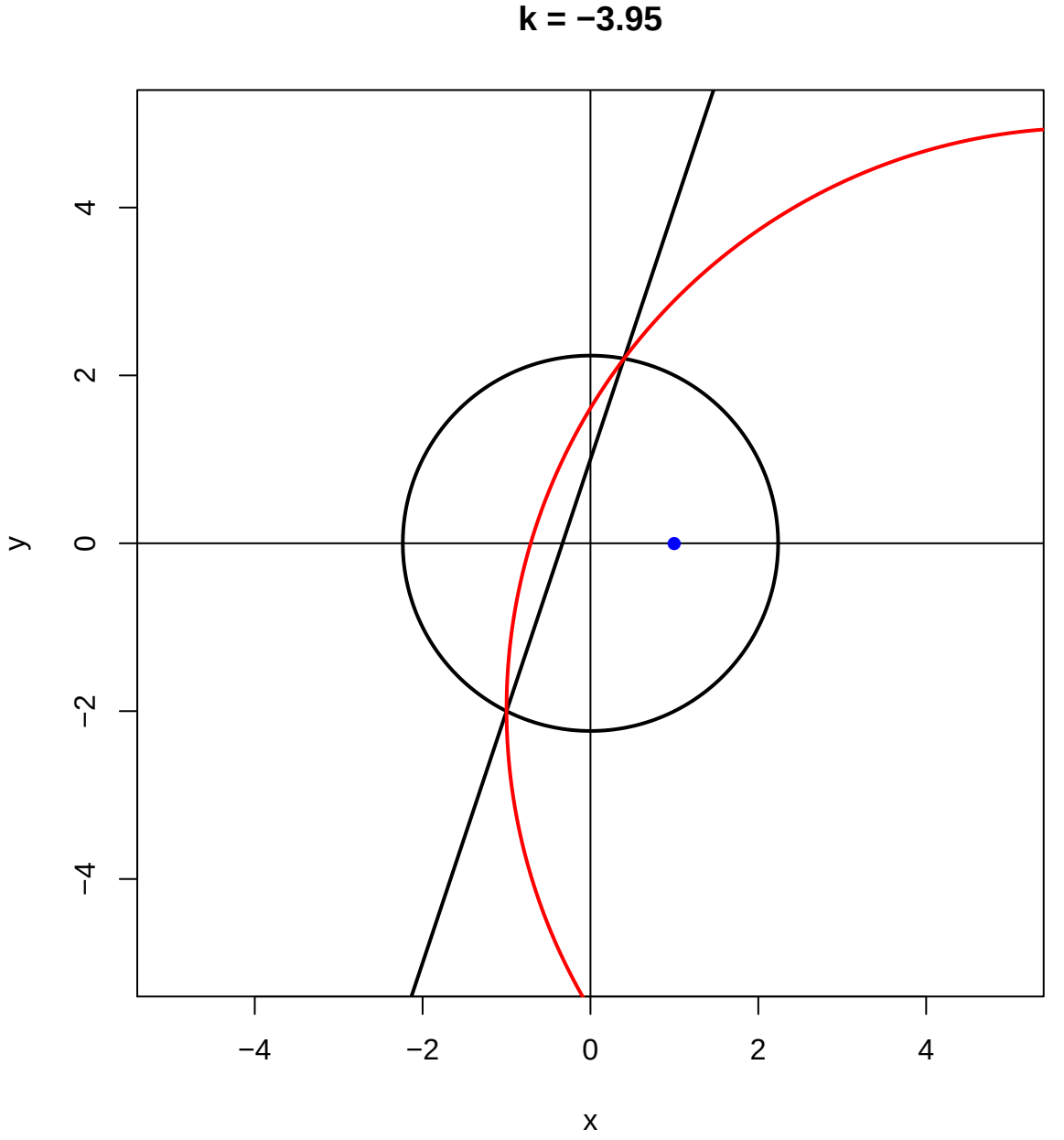
−2
−4
−4
−2
0
2
4


k = −3.95
y
x
4
2
0
−2
−4
−4
−2
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2
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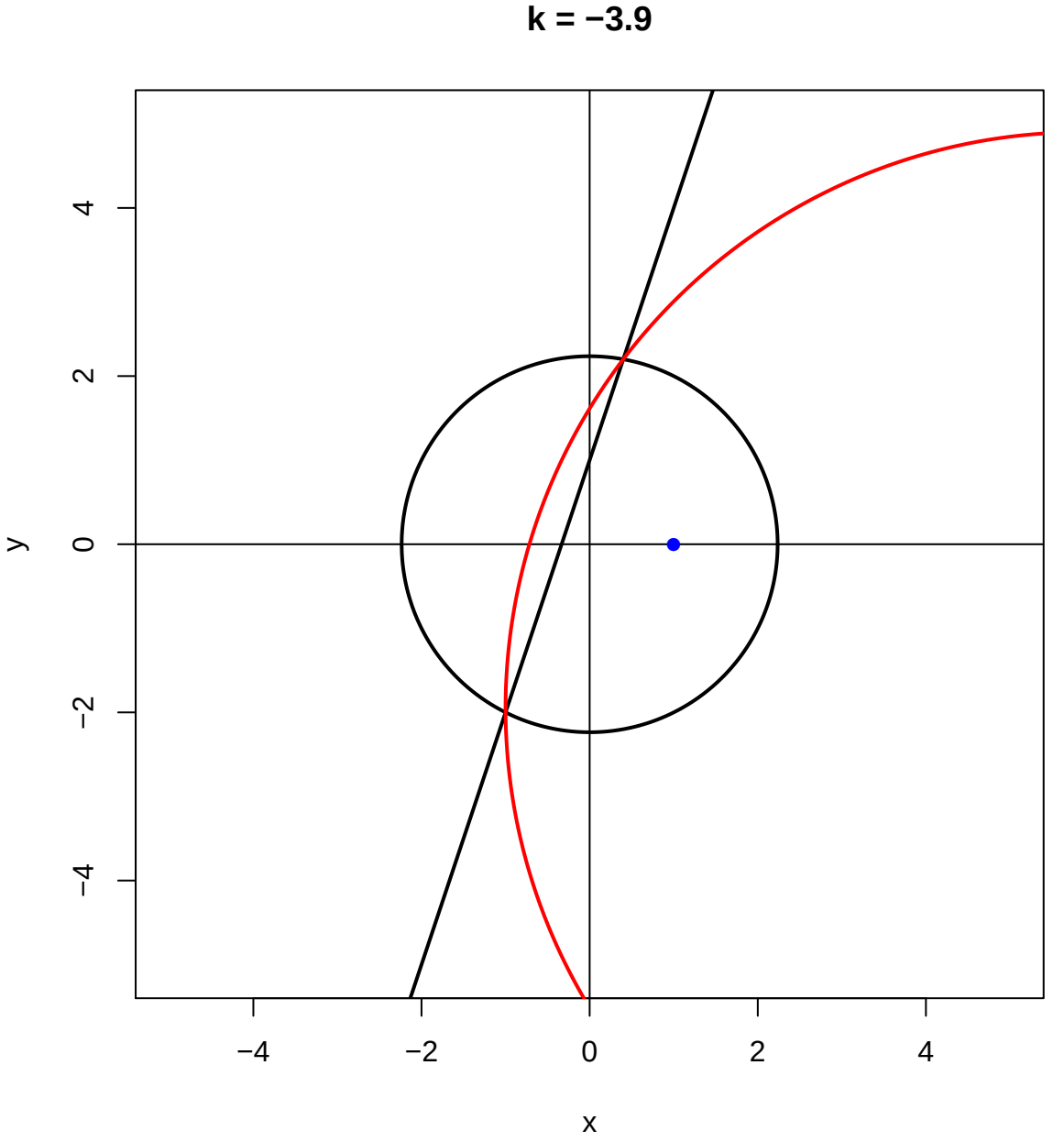
k = −3.9
y
x
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2
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−2
−4
−4
−2
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2
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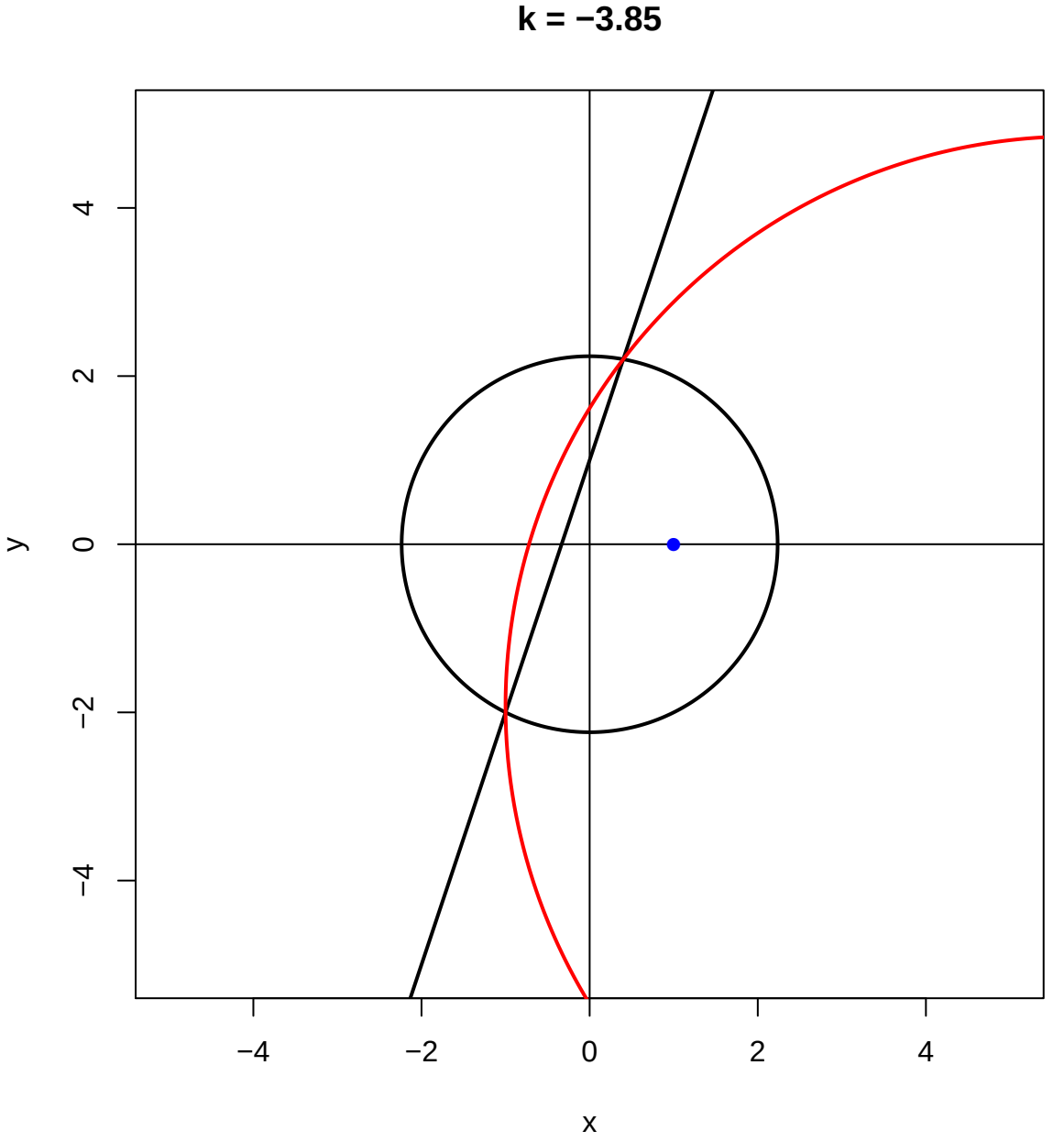
k = −3.85
y
x
4
2
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−2
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−4
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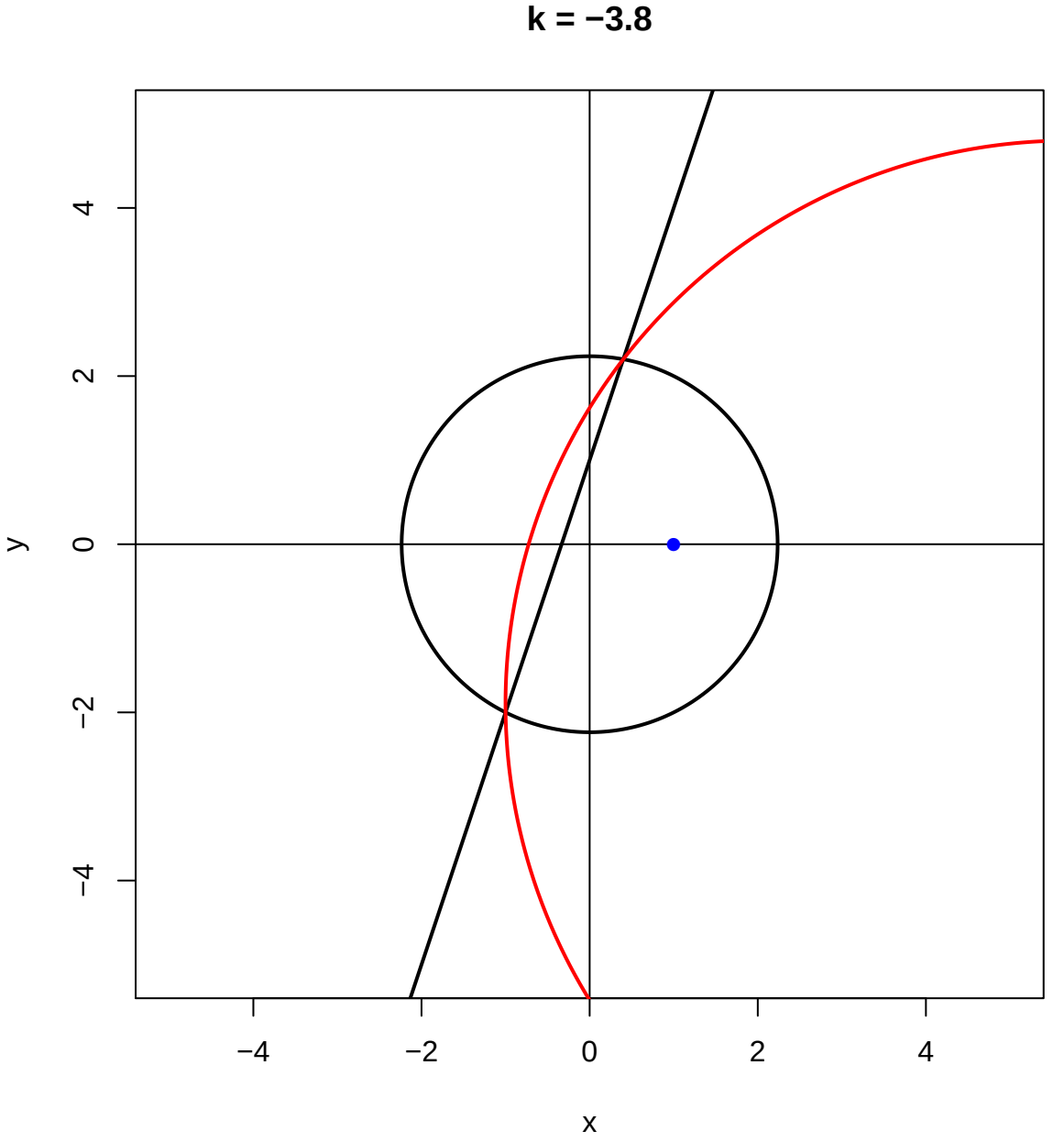
k = −3.8
y
x
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2
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−2
−4
−4
−2
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2
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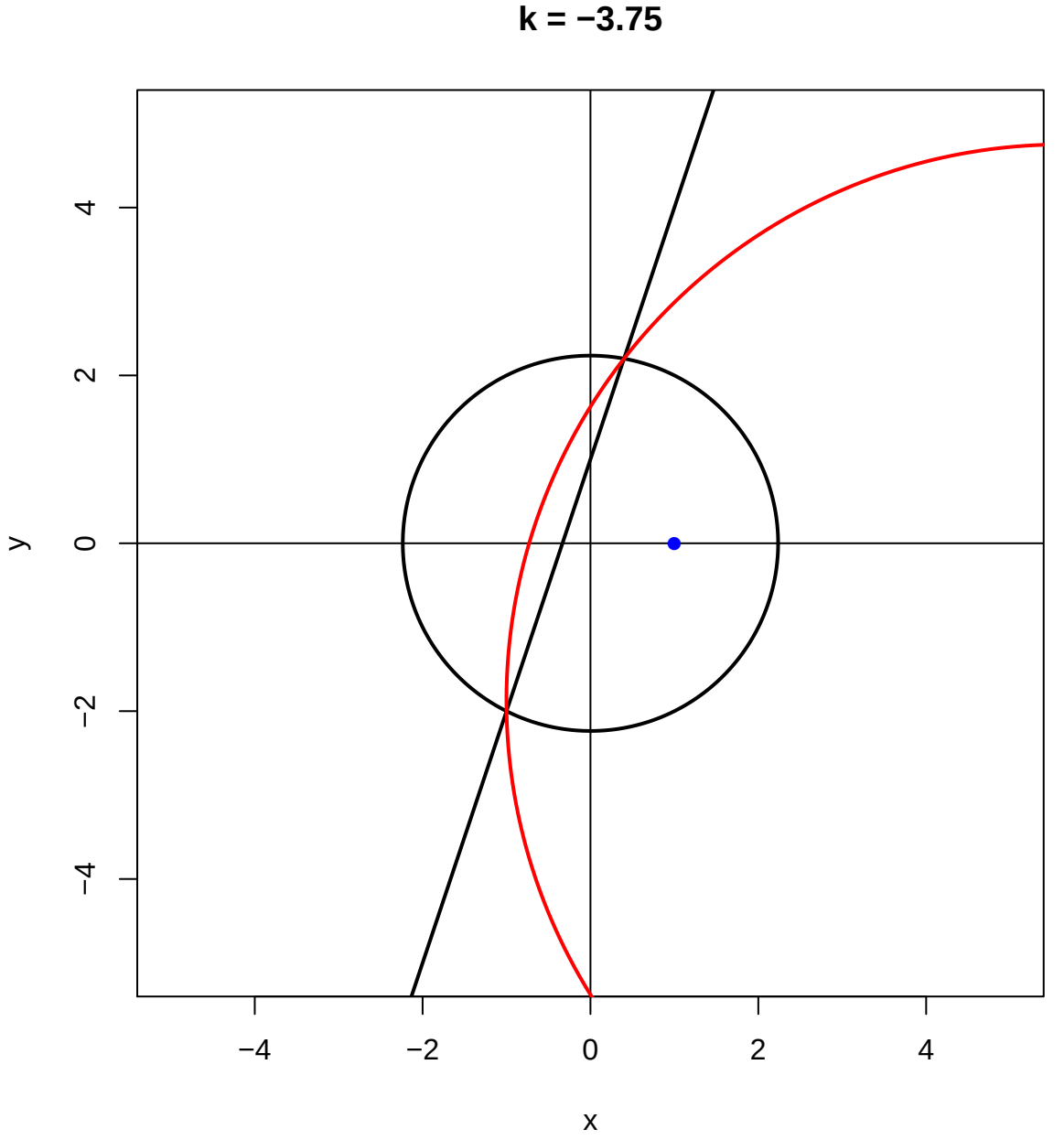
k = −3.75
y
x
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2
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−2
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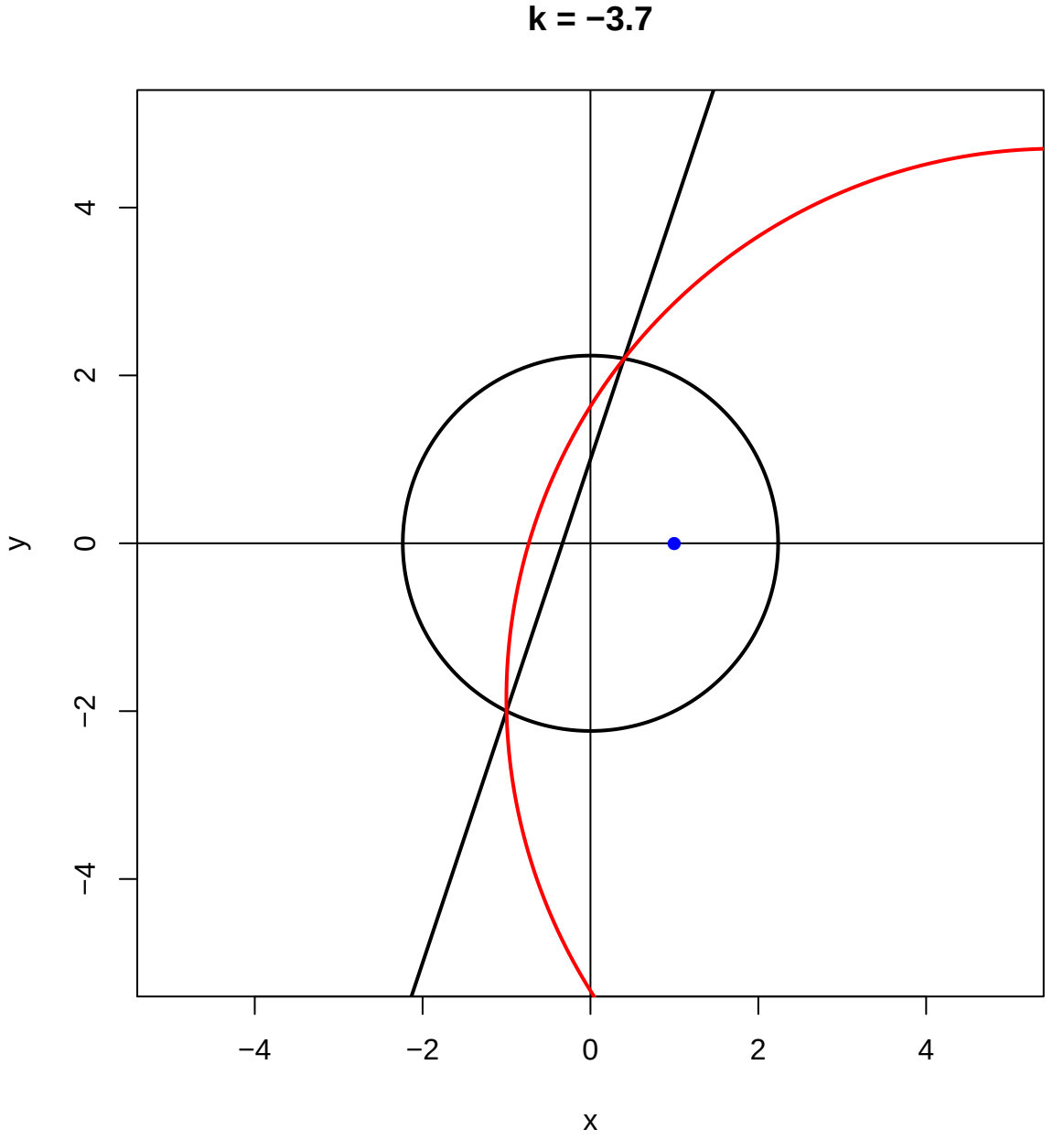
2
4


k = −3.7
y
x
4
2
0
−2
−4
−4
−2
0
2
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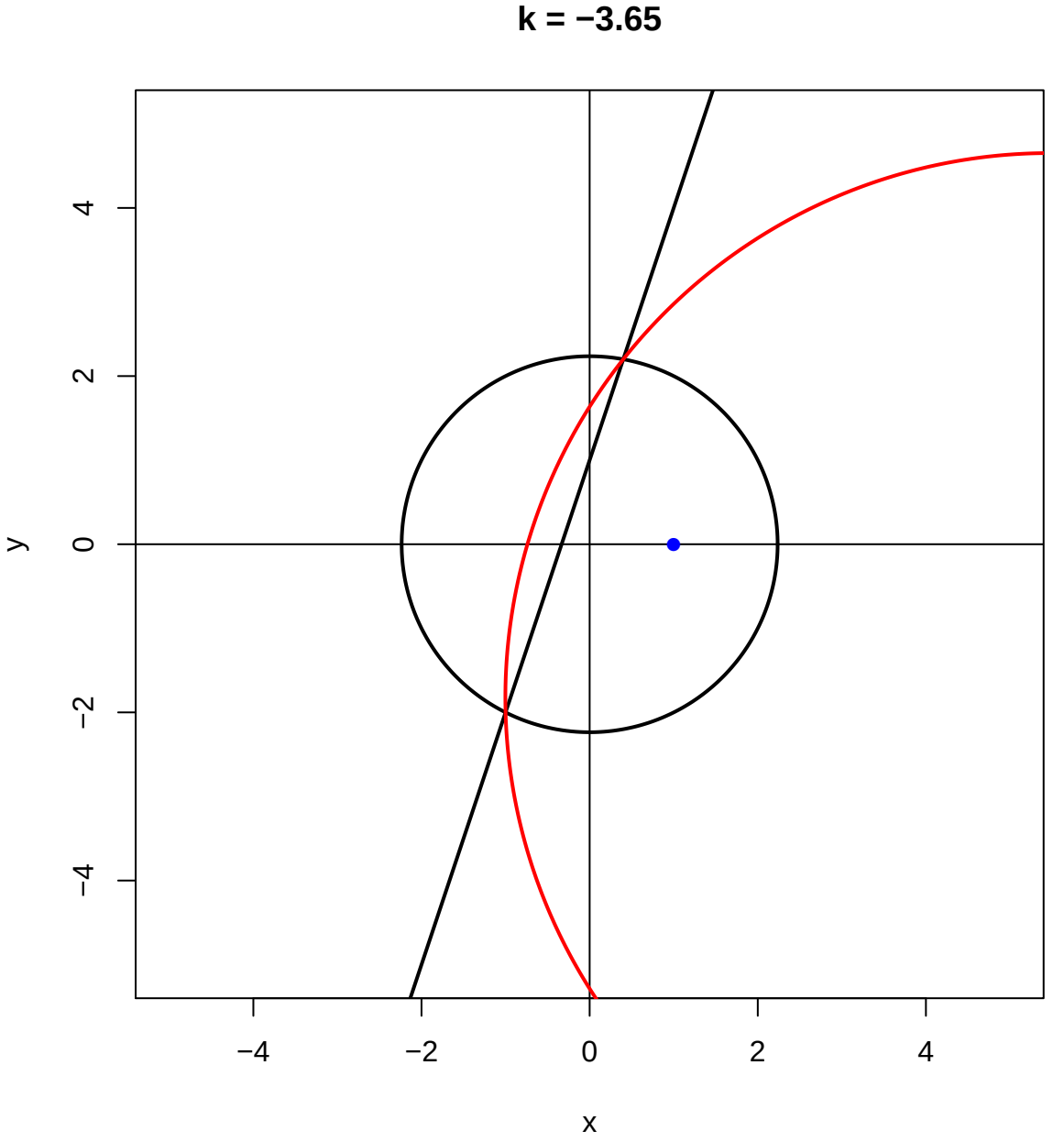
k = −3.65
y
x
4
2
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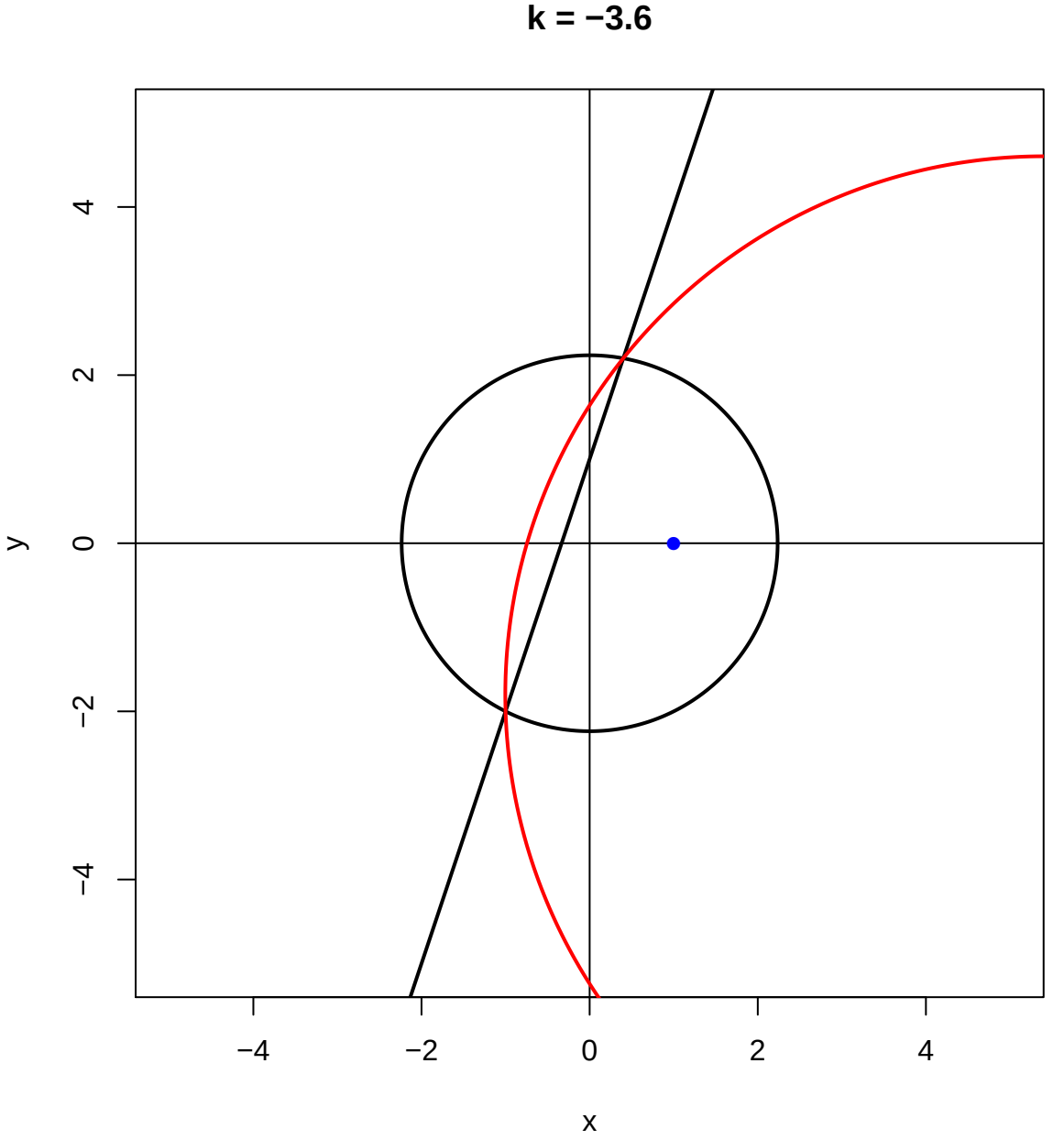
k = −3.6
y
x
4
2
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−2
−4
−4
−2
0
2
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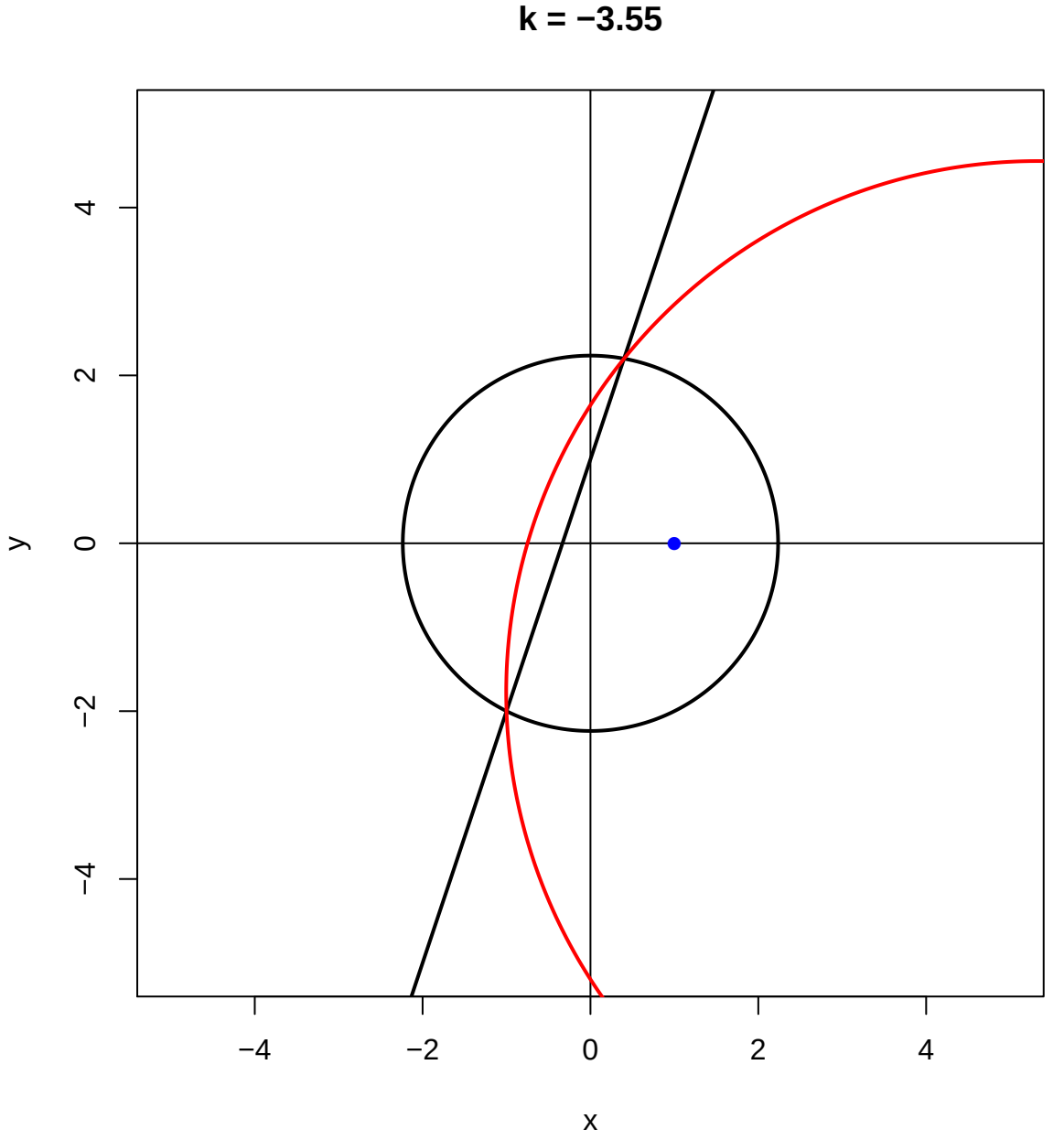
k = −3.55
y
x
4
2
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−2
−4
−4
−2
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2
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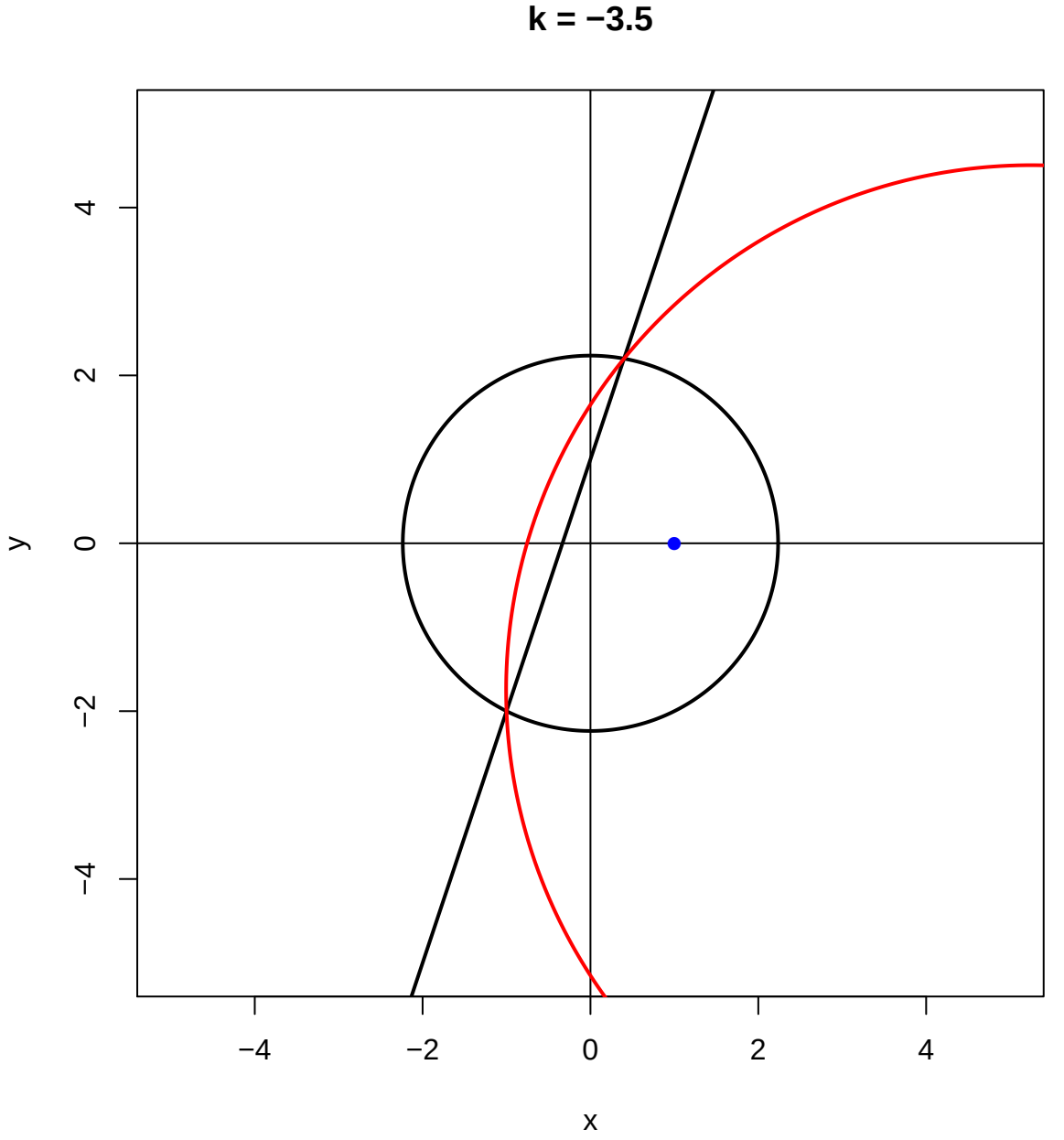
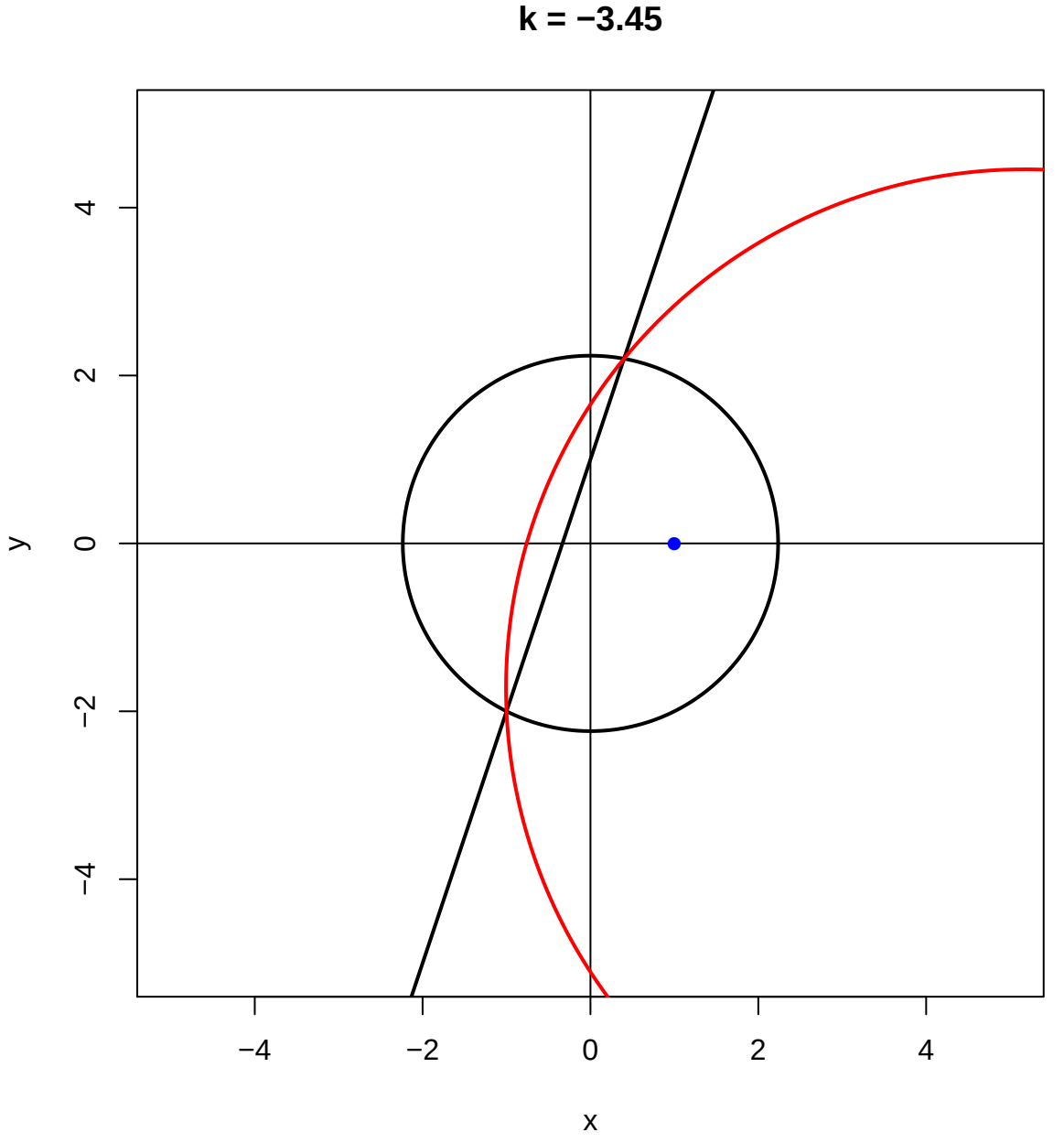

k = −3.5
y
x
4
2
0
−2
−4
−4
−2
0
2
4


k = −3.45
y
x
4
2
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−2
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−4
−2
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2
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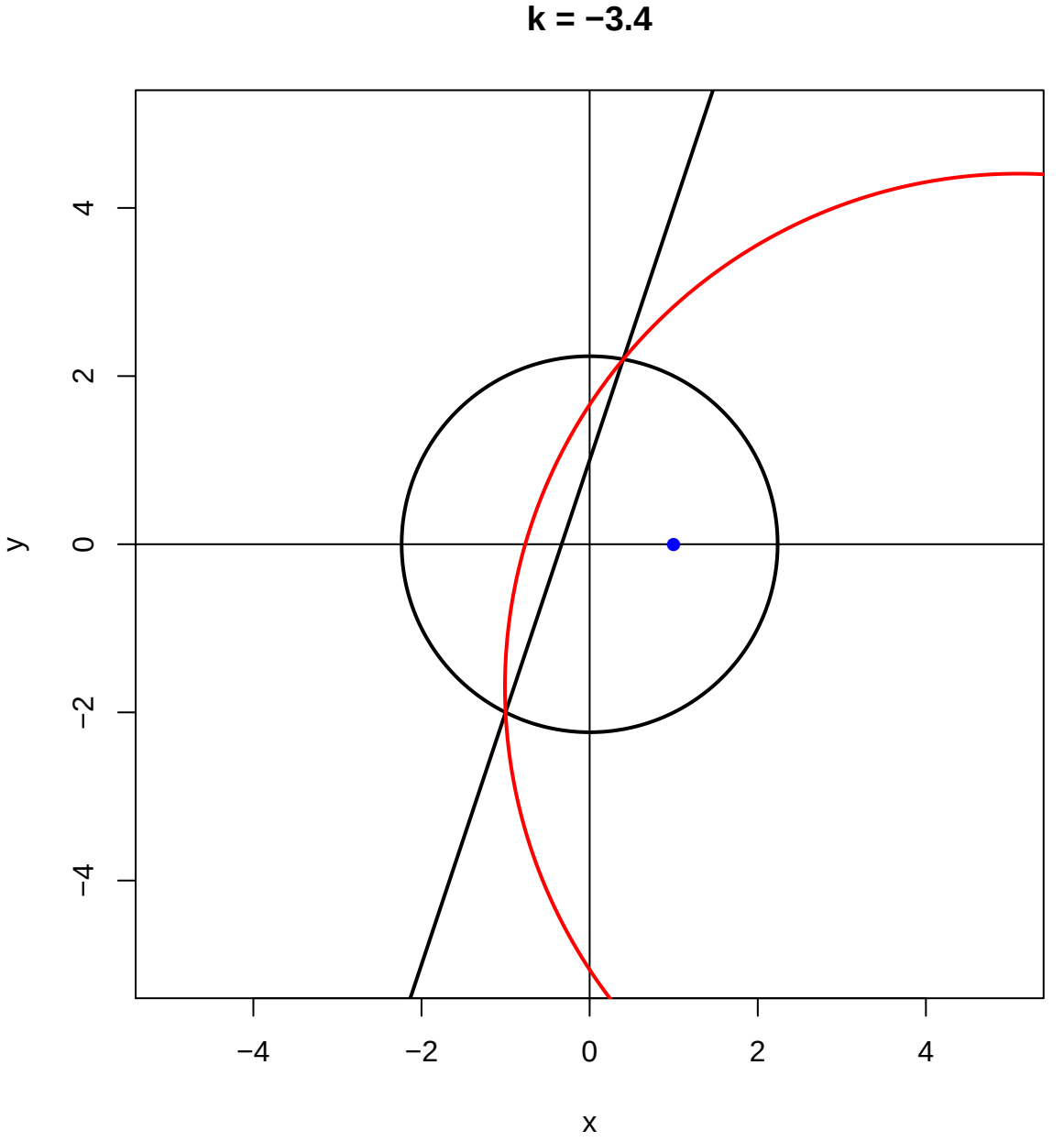
k = −3.4
y
x
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−2
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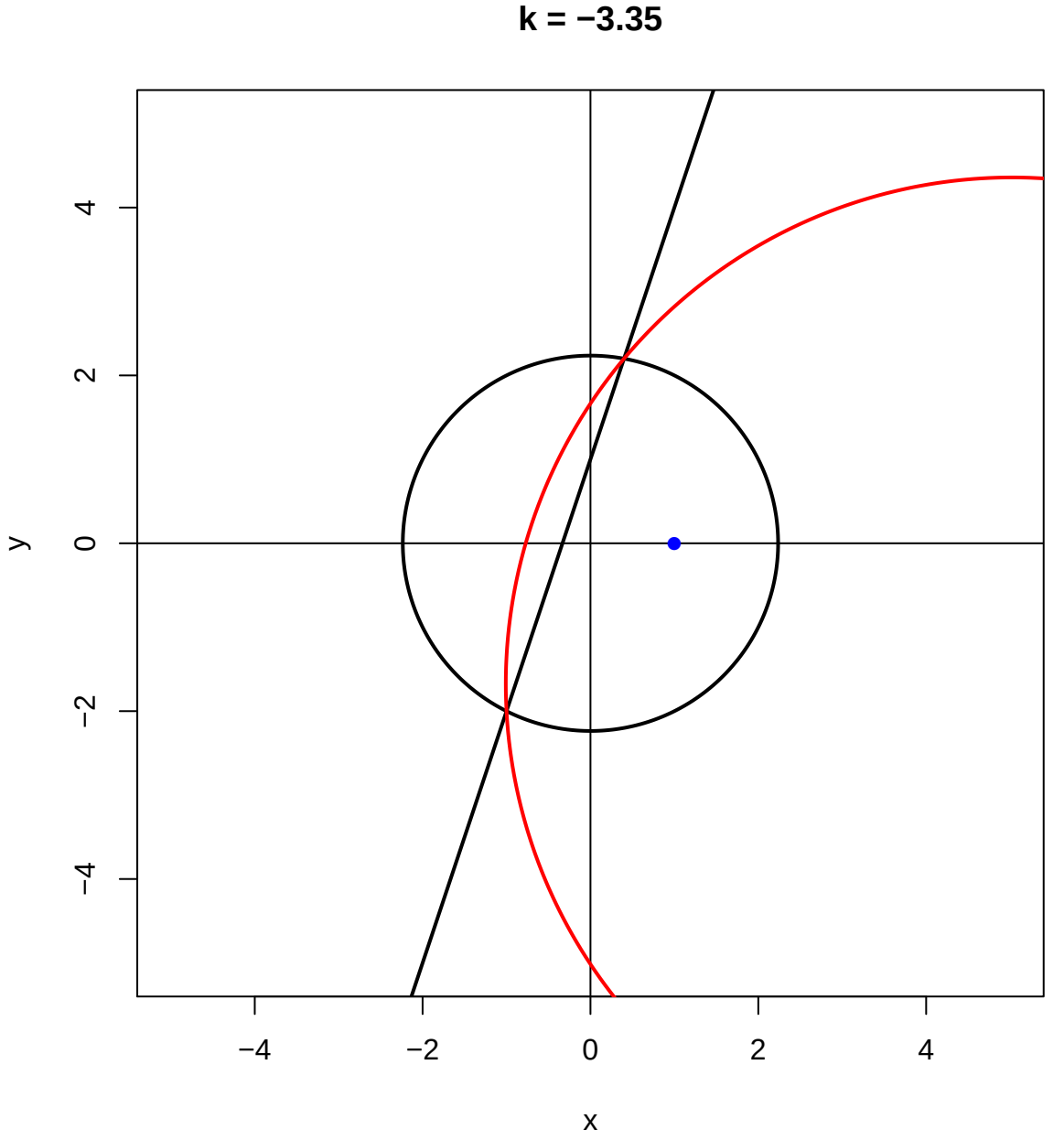
k = −3.35
y
x
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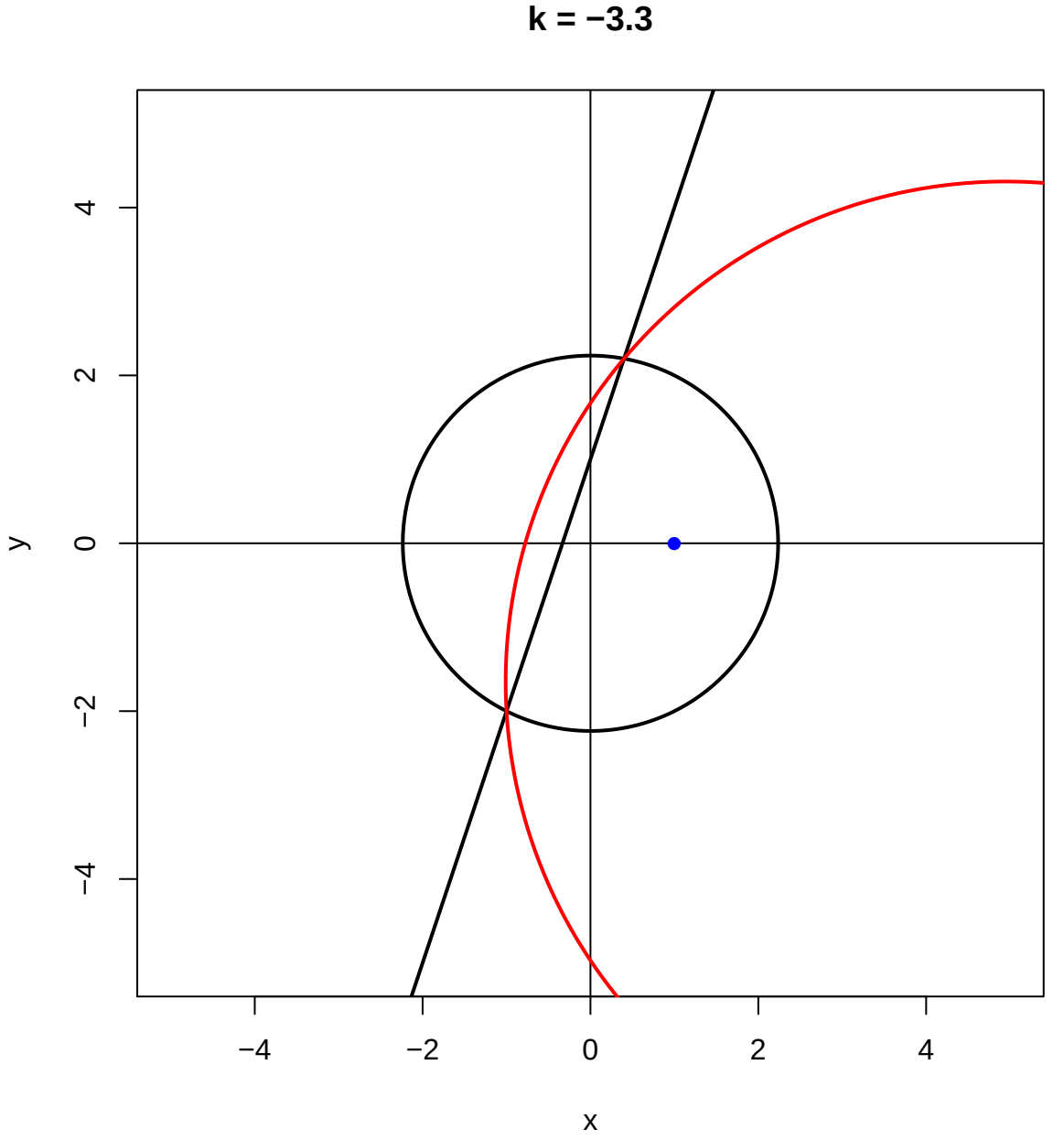
k = −3.3
y
x
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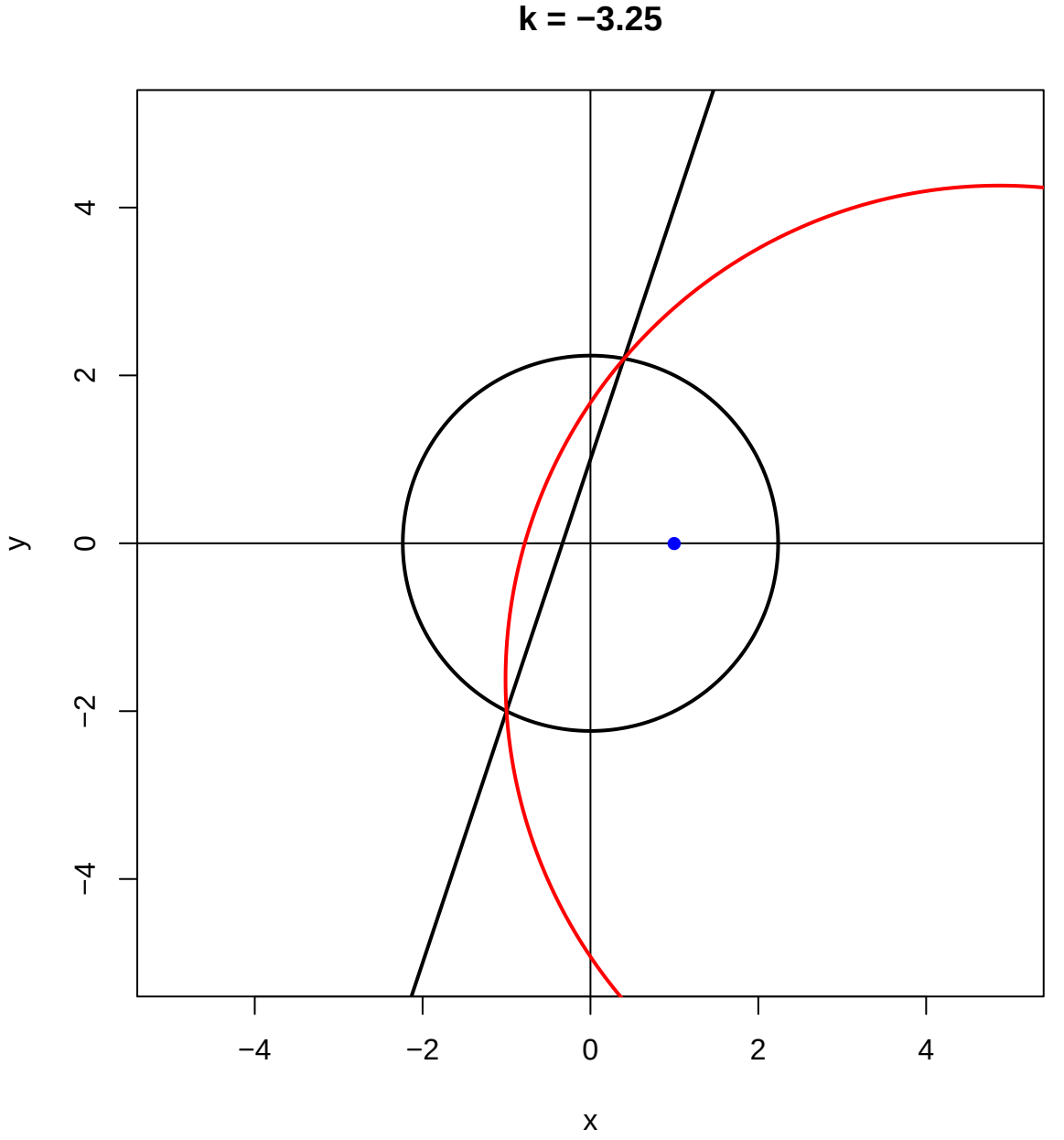
k = −3.25
y
x
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2
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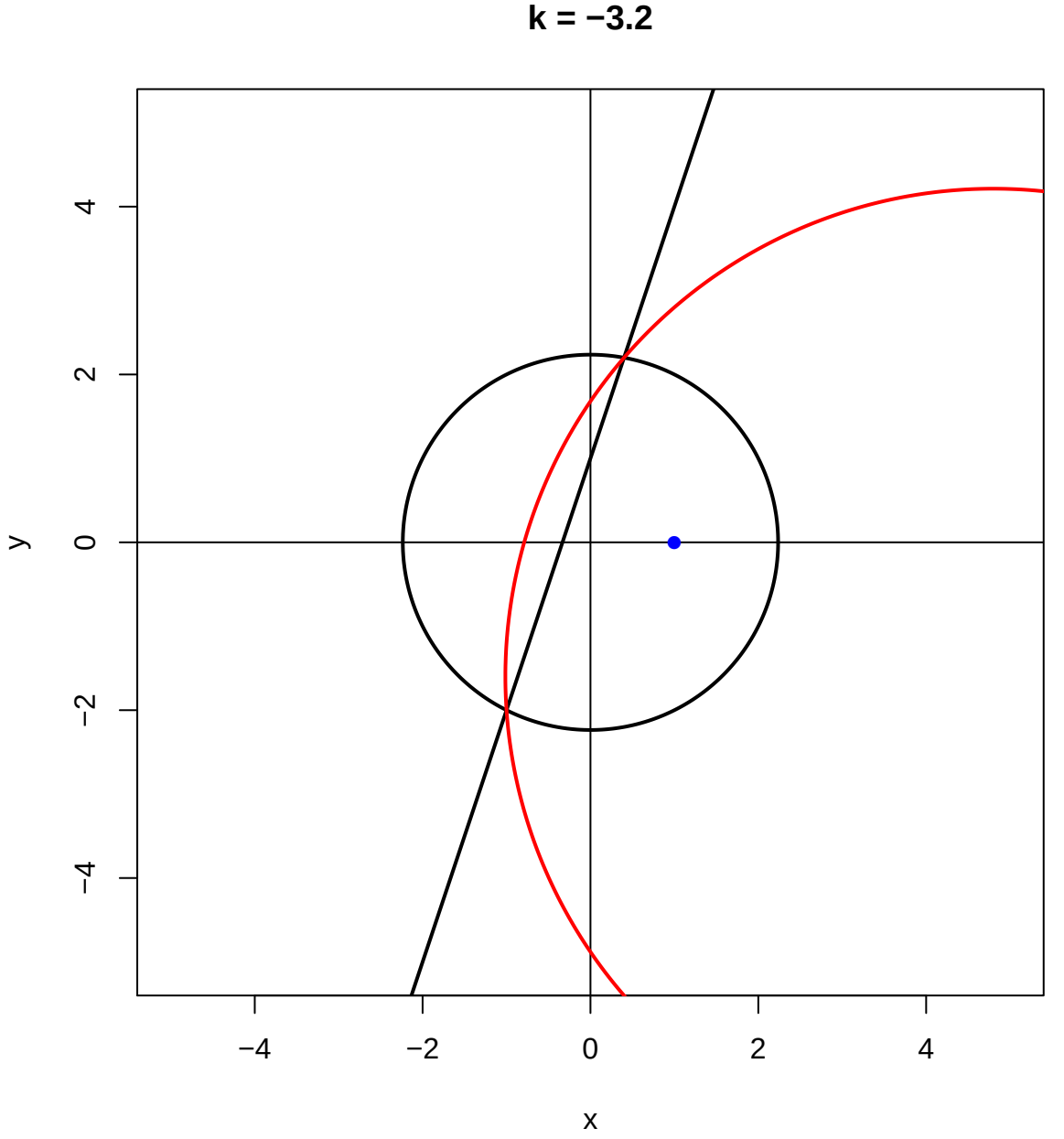
k = −3.2
y
x
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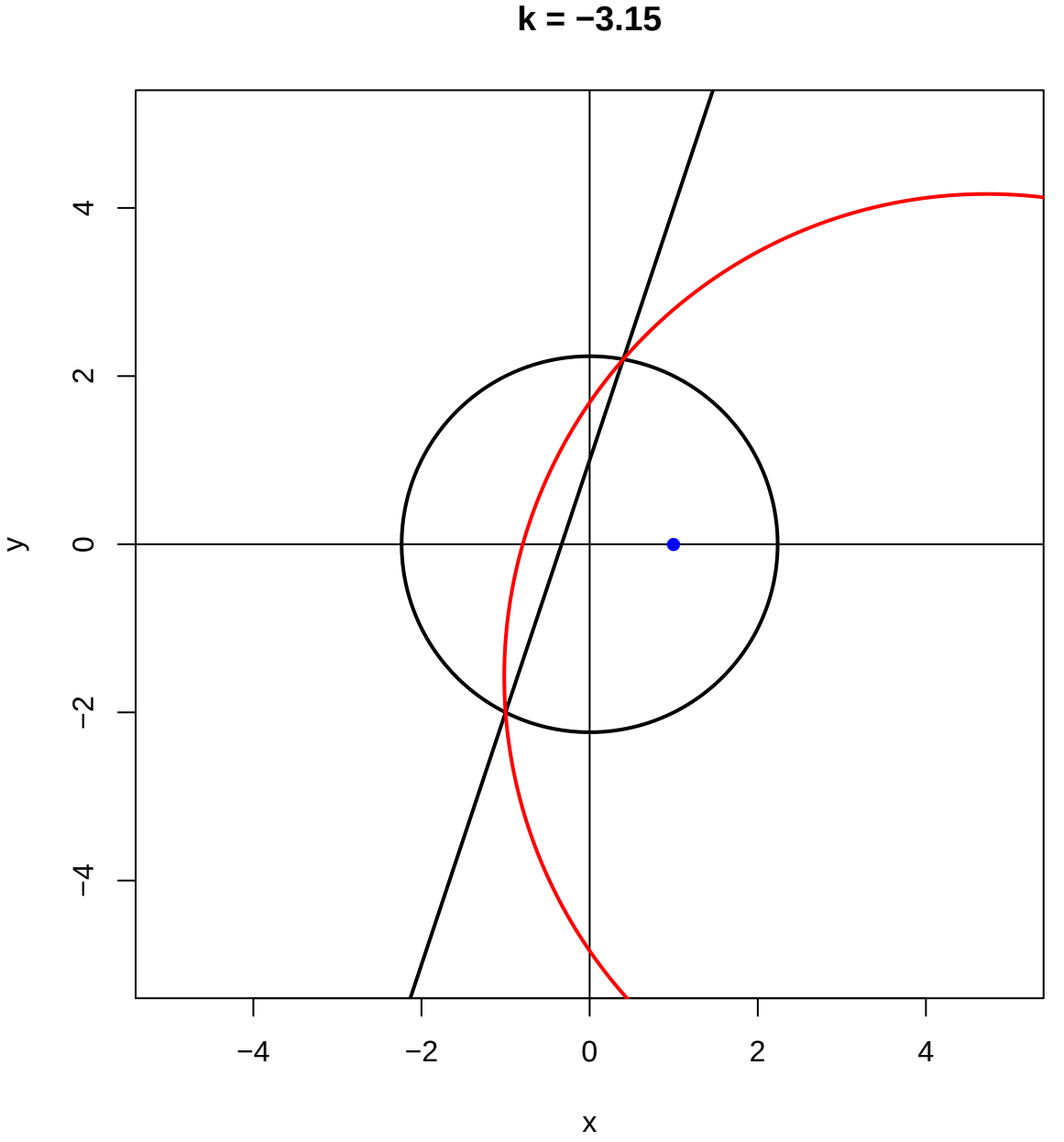
−2
0
2
4


k = −3.15
y
x
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2
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2
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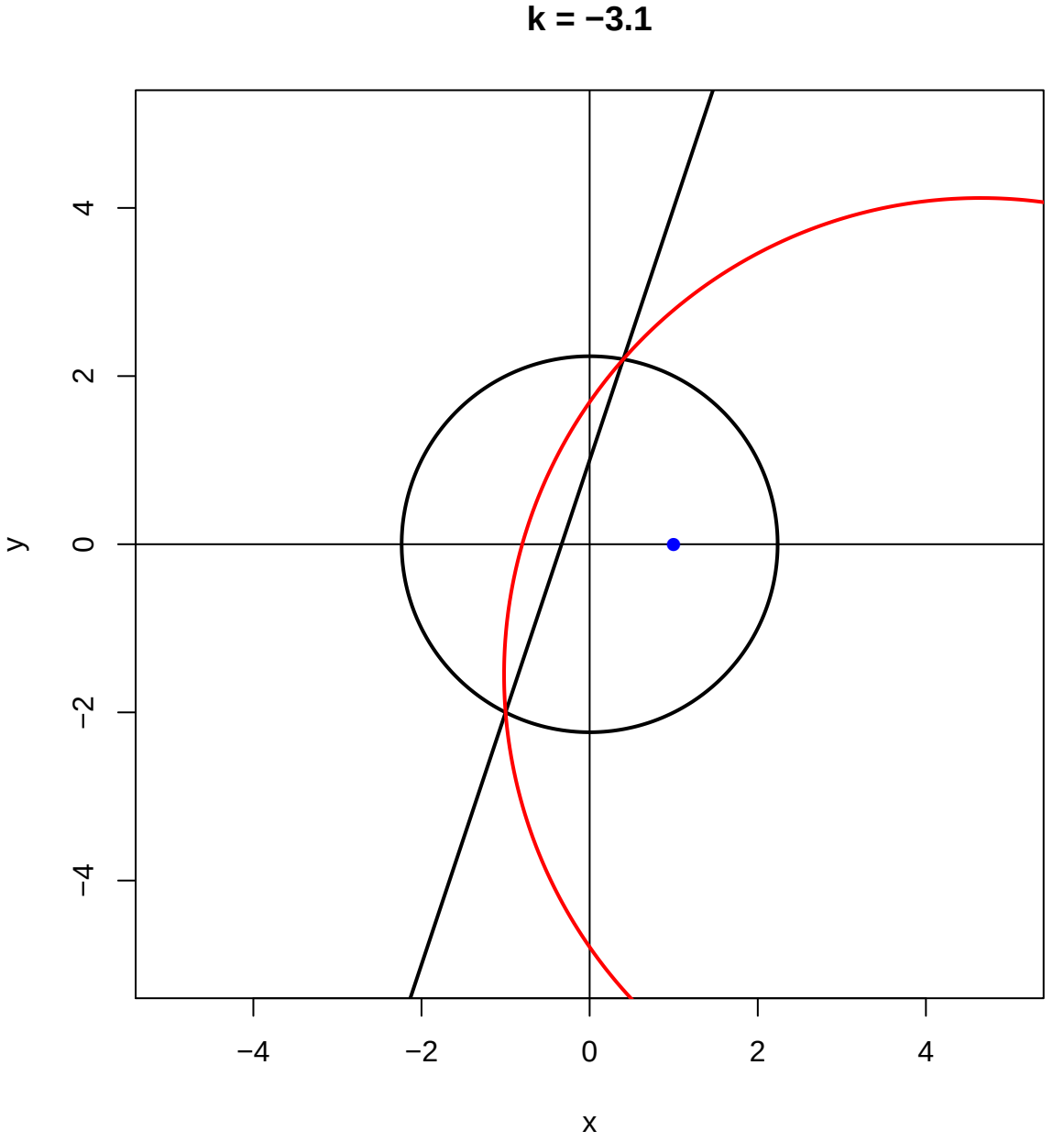
k = −3.1
y
x
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2
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−2
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−2
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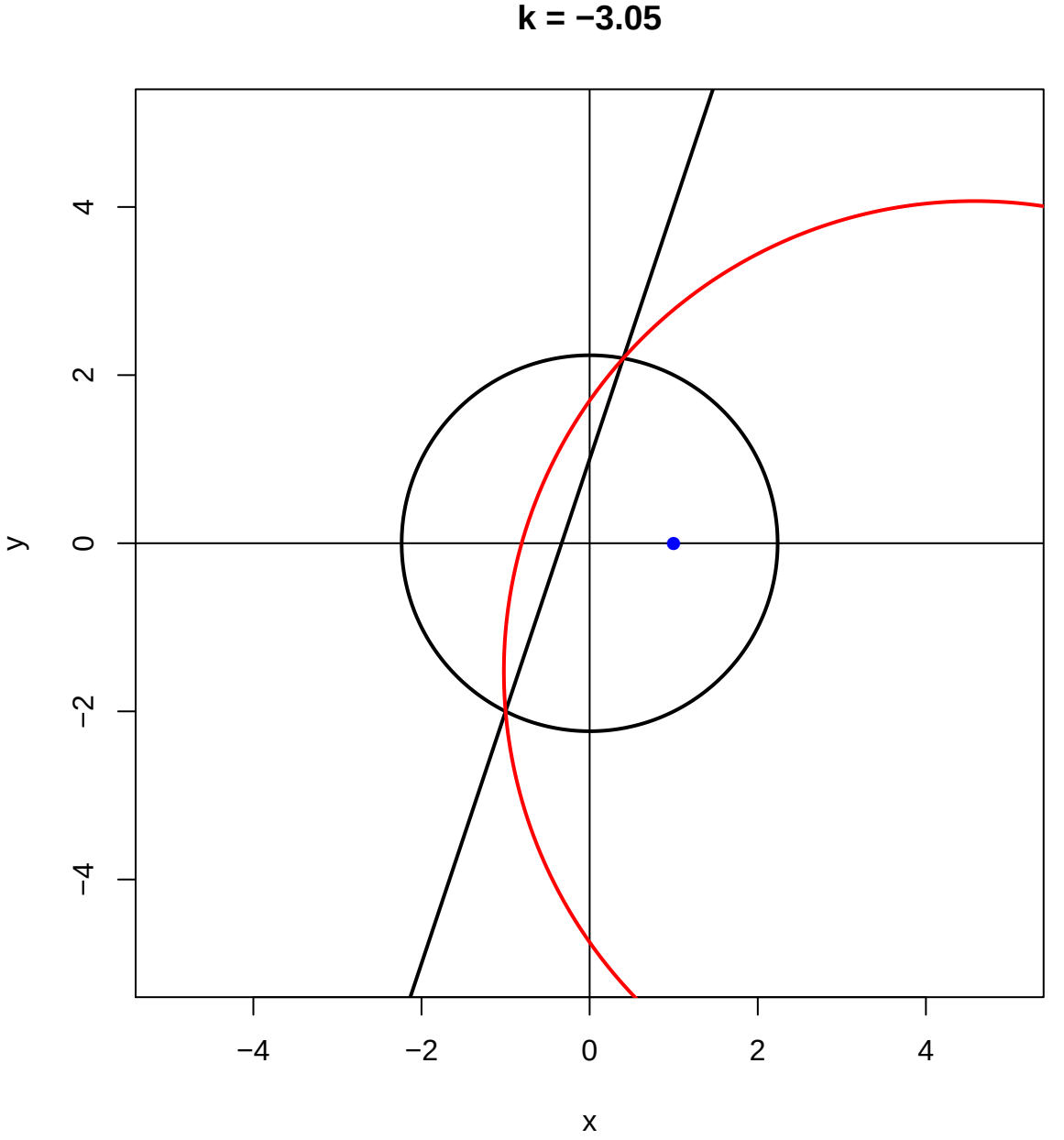
k = −3.05
y
x
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−2
−4
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−2
0
2
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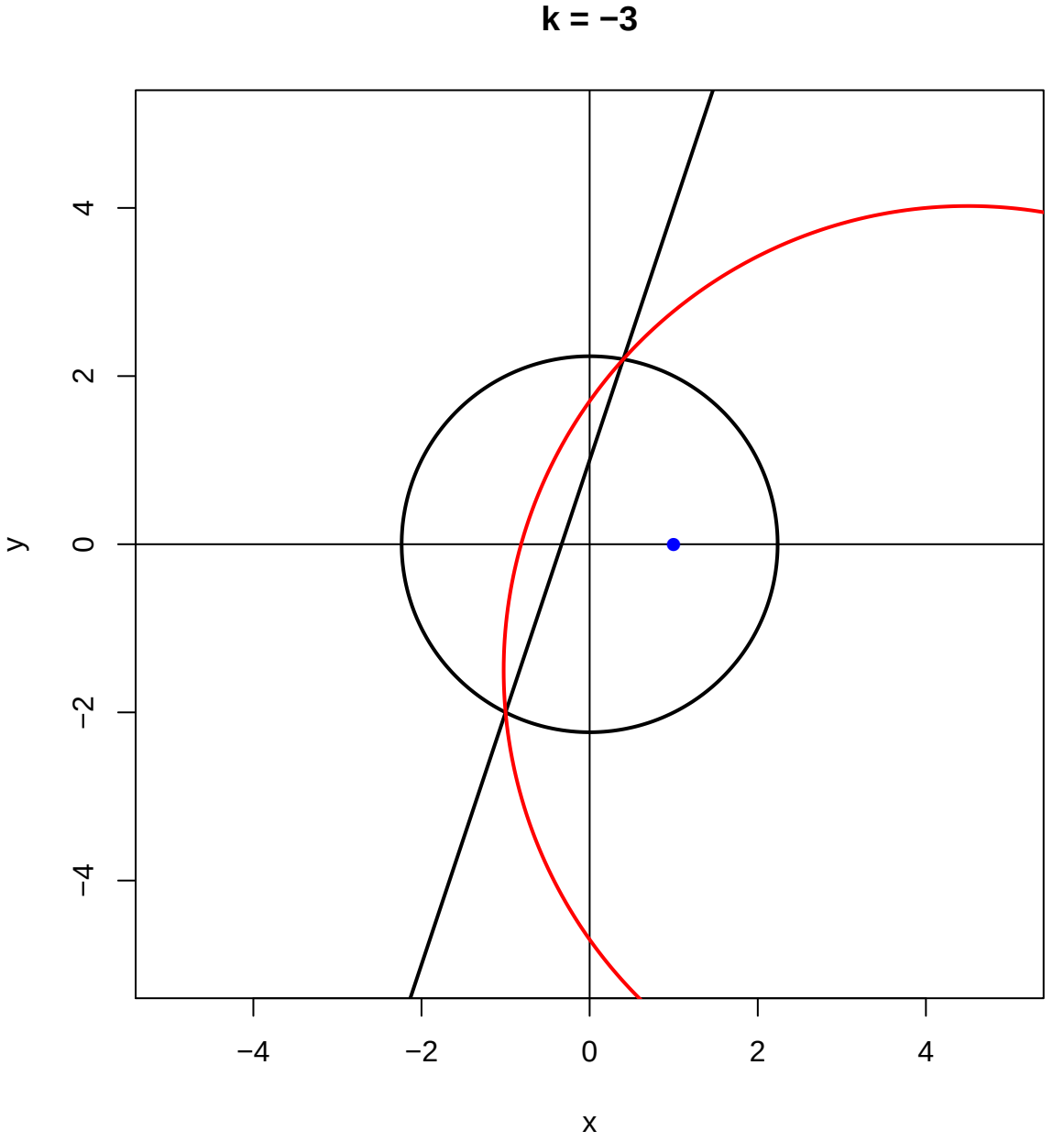
k = −3
y
x
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2
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−2
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−2
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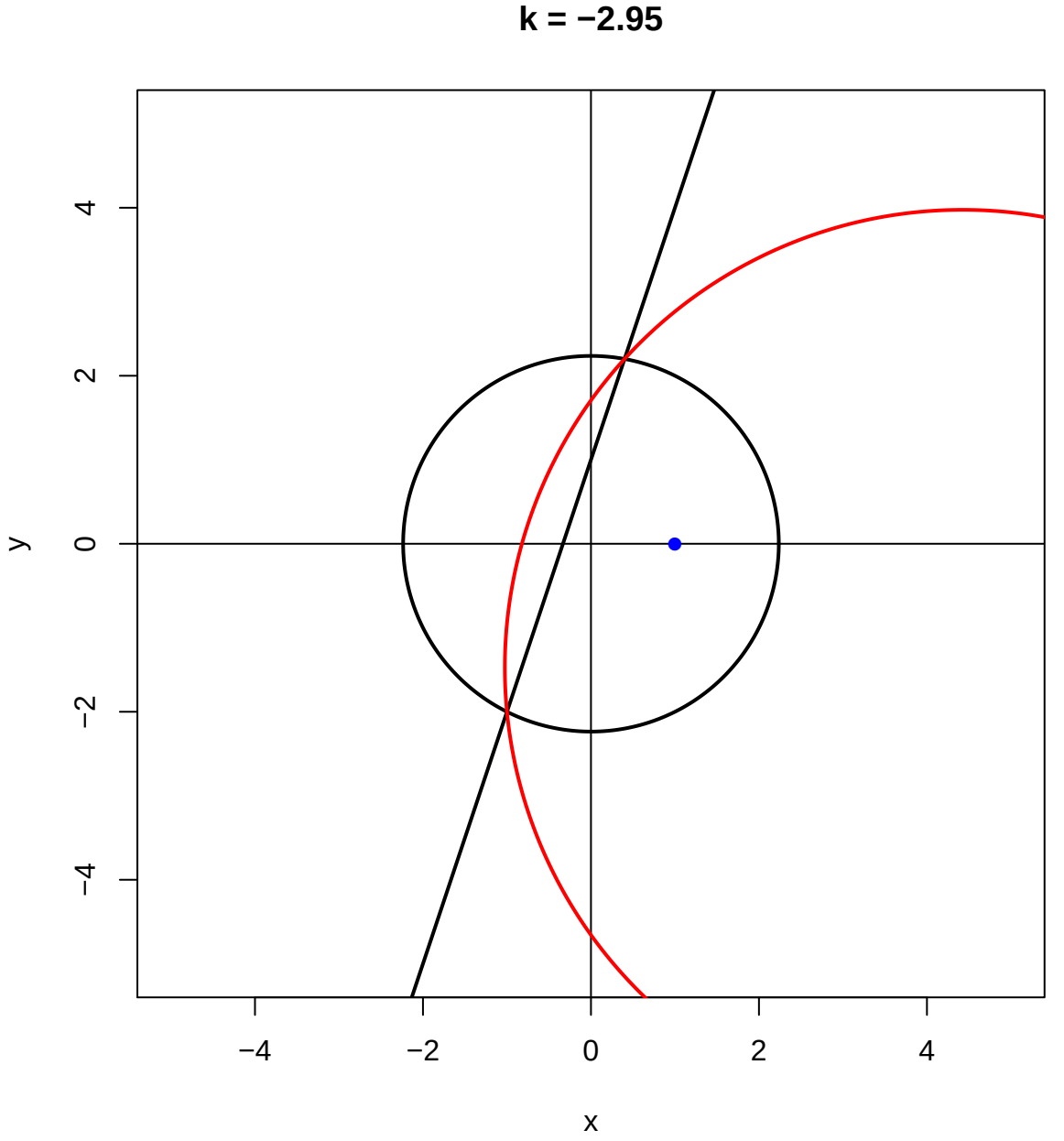
2
4


k = −2.95
y
x
4
2
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−4
−2
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2
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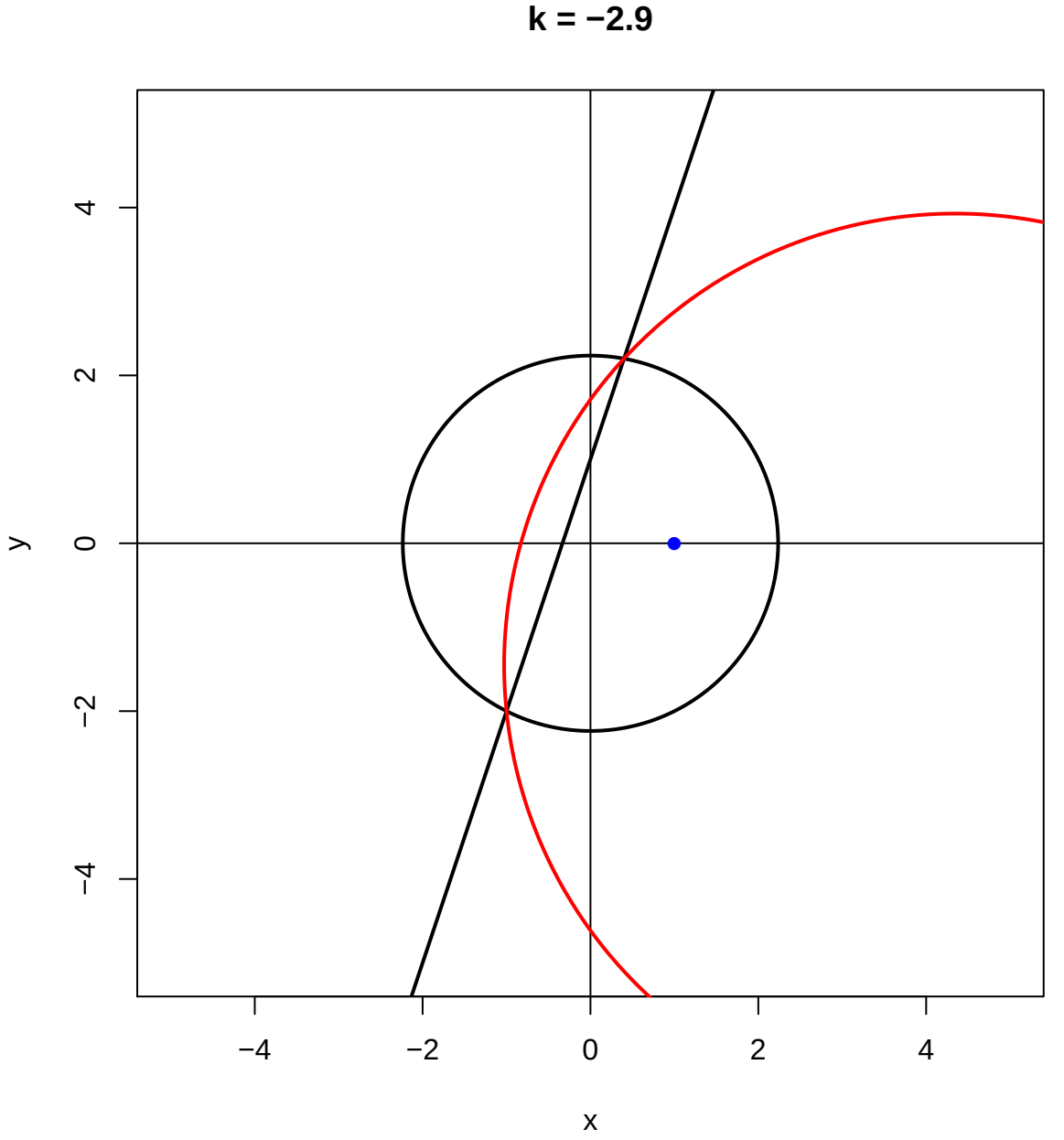
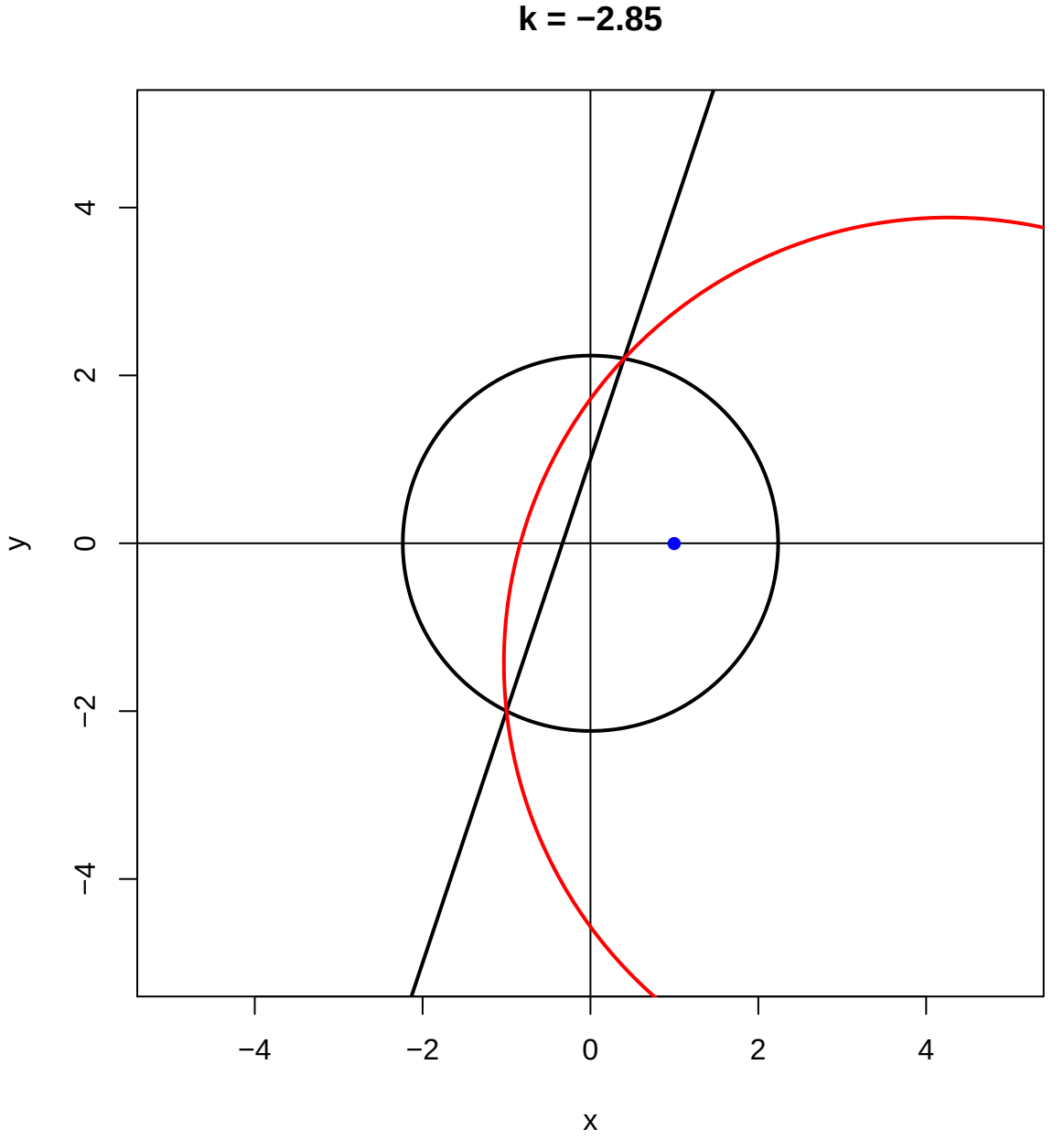

k = −2.9
y
x
4
2
0
−2
−4
−4
−2
0
2
4


k = −2.85
y
x
4
2
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−2
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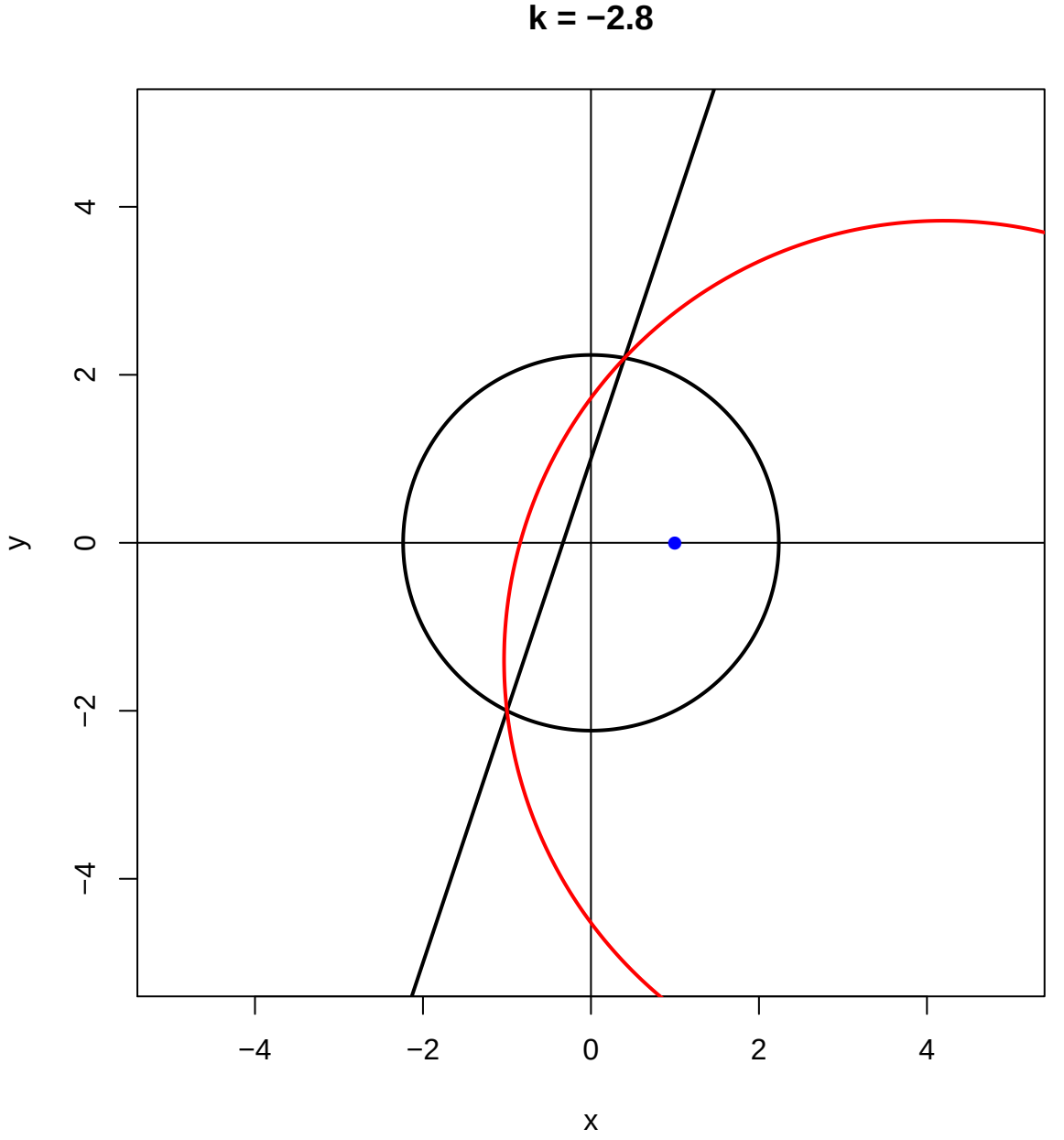
−4
−2
0
2
4


k = −2.8
y
x
4
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−2
−4
−4
−2
0
2
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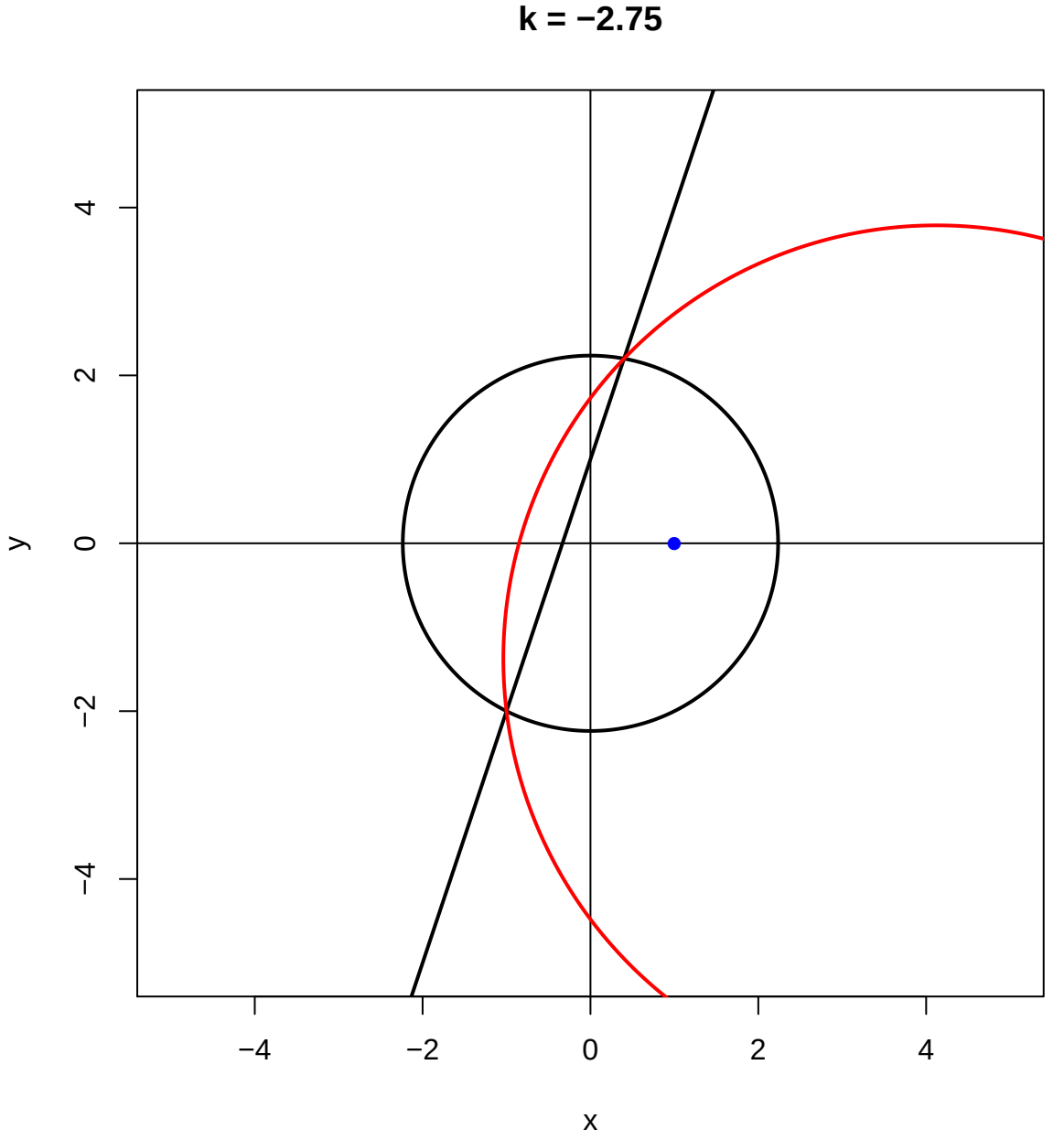
k = −2.75
y
x
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2
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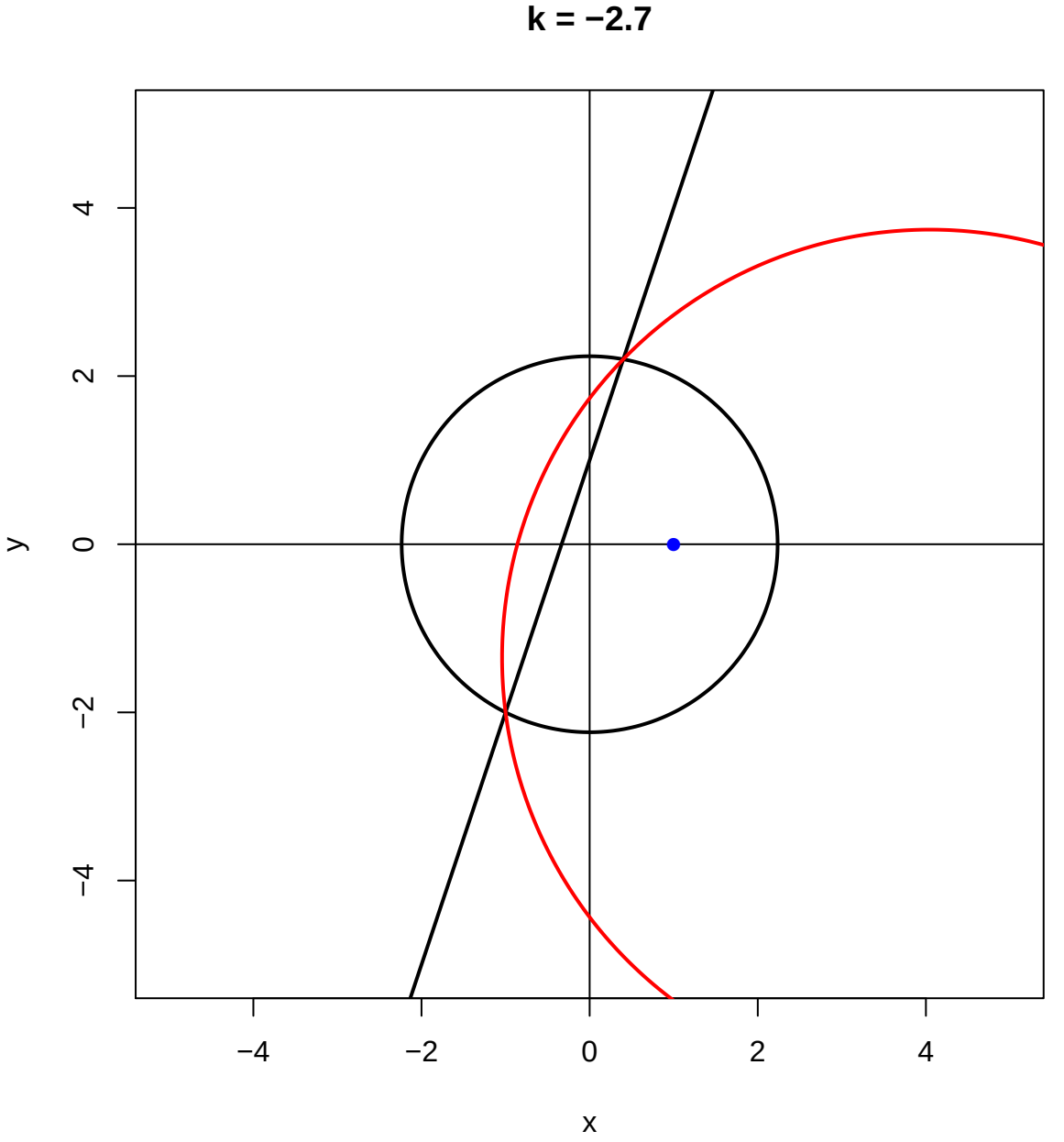
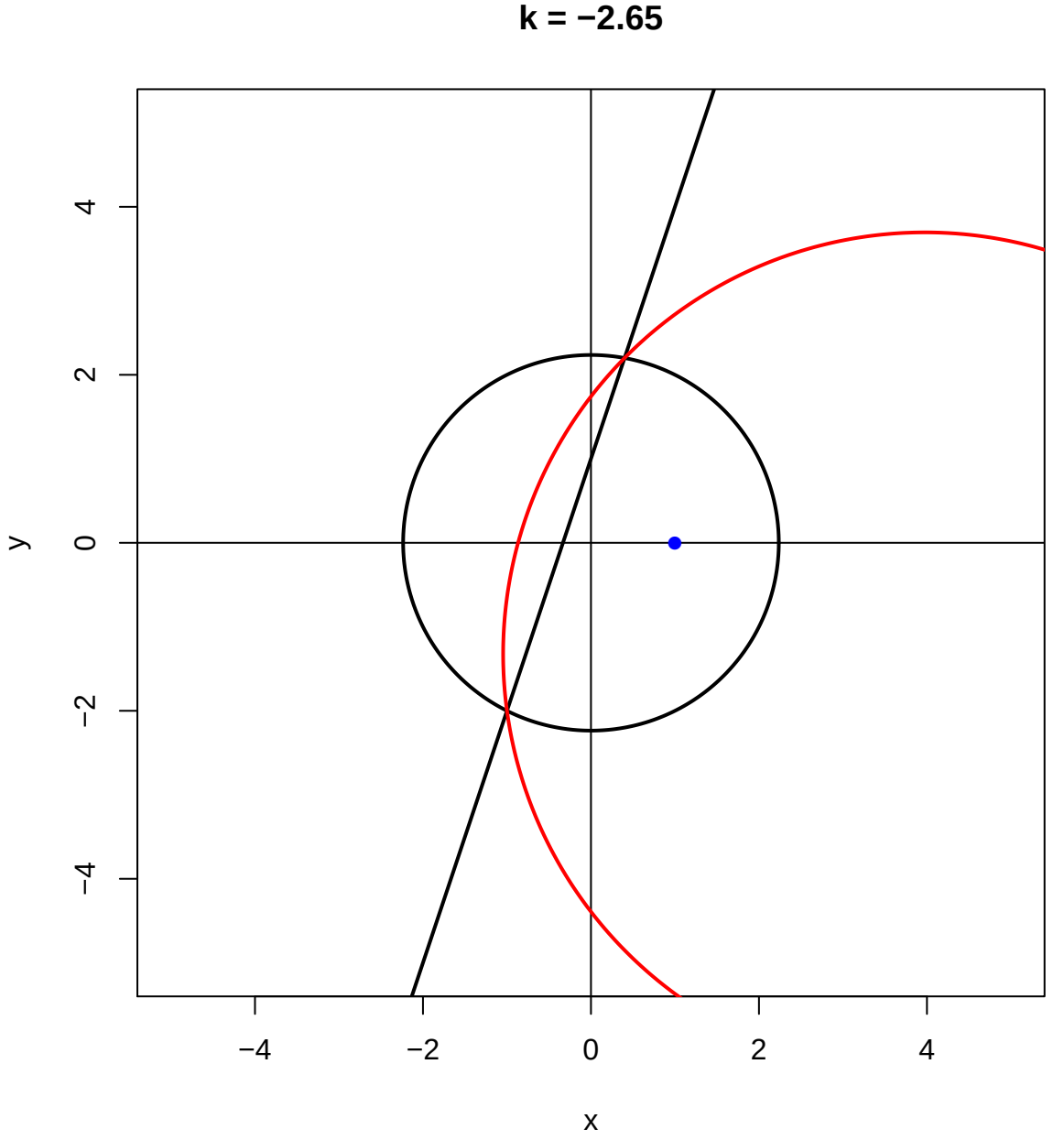
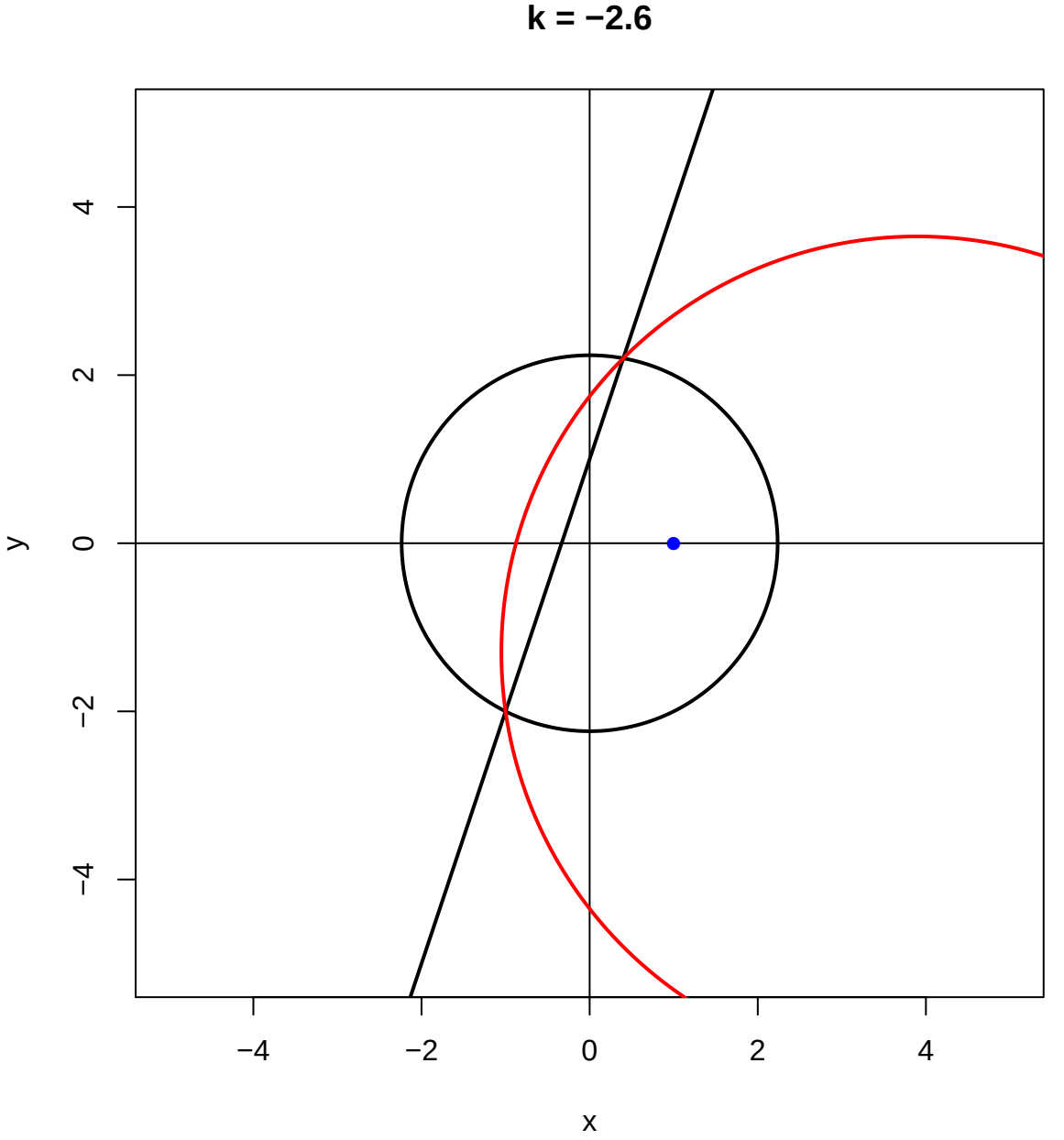
−2
−4
−4
−2
0
2
4


k = −2.7
y
x
4
2
0
−2
−4
−4
−2
0
2
4


k = −2.65
y
x
4
2
0
−2
−4
−4
−2
0
2
4


k = −2.6
y
x
4
2
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−2
−4
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−2
0
2
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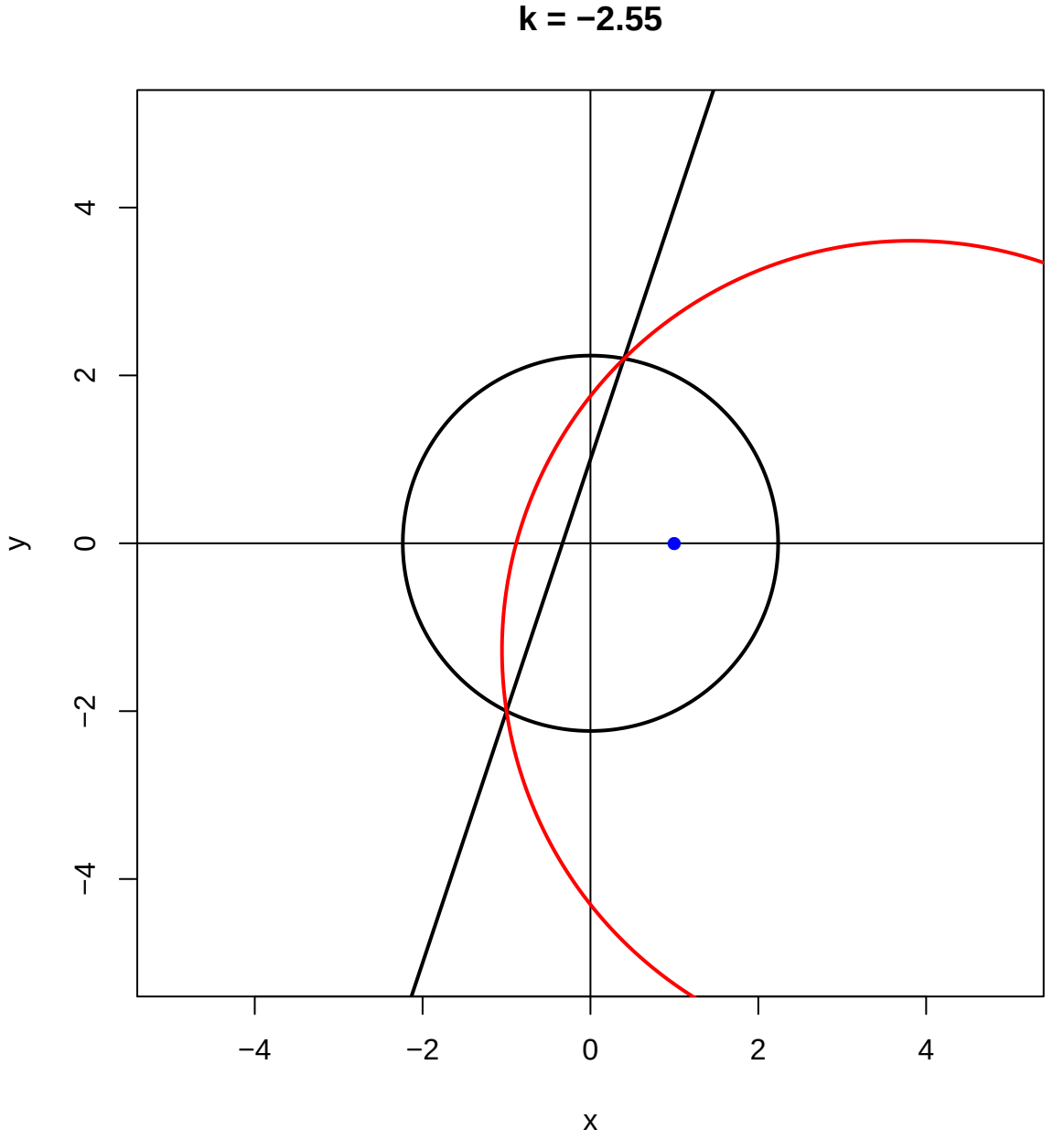
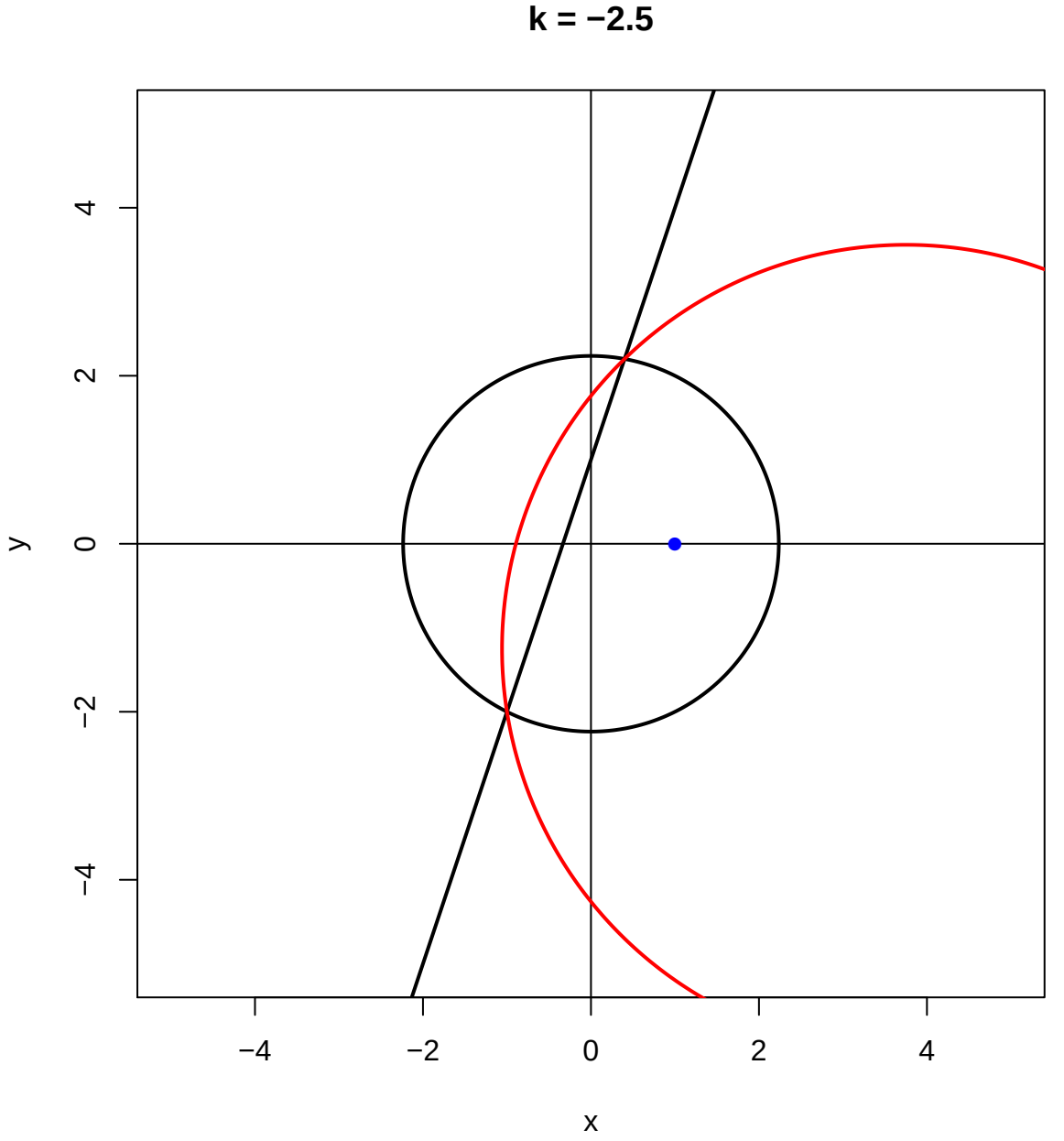
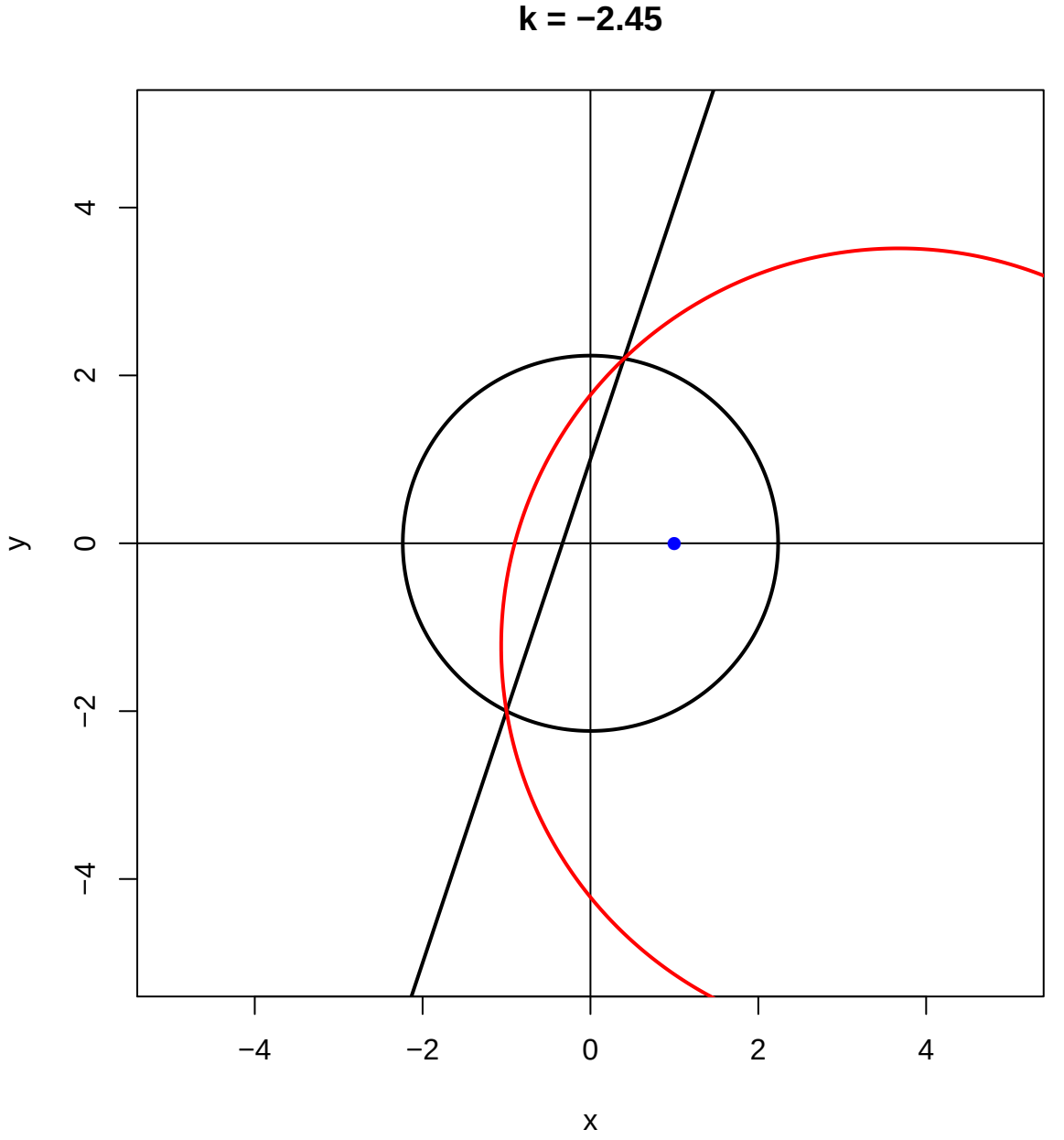

k = −2.55
y
x
4
2
0
−2
−4
−4
−2
0
2
4


k = −2.5
y
x
4
2
0
−2
−4
−4
−2
0
2
4


k = −2.45
y
x
4
2
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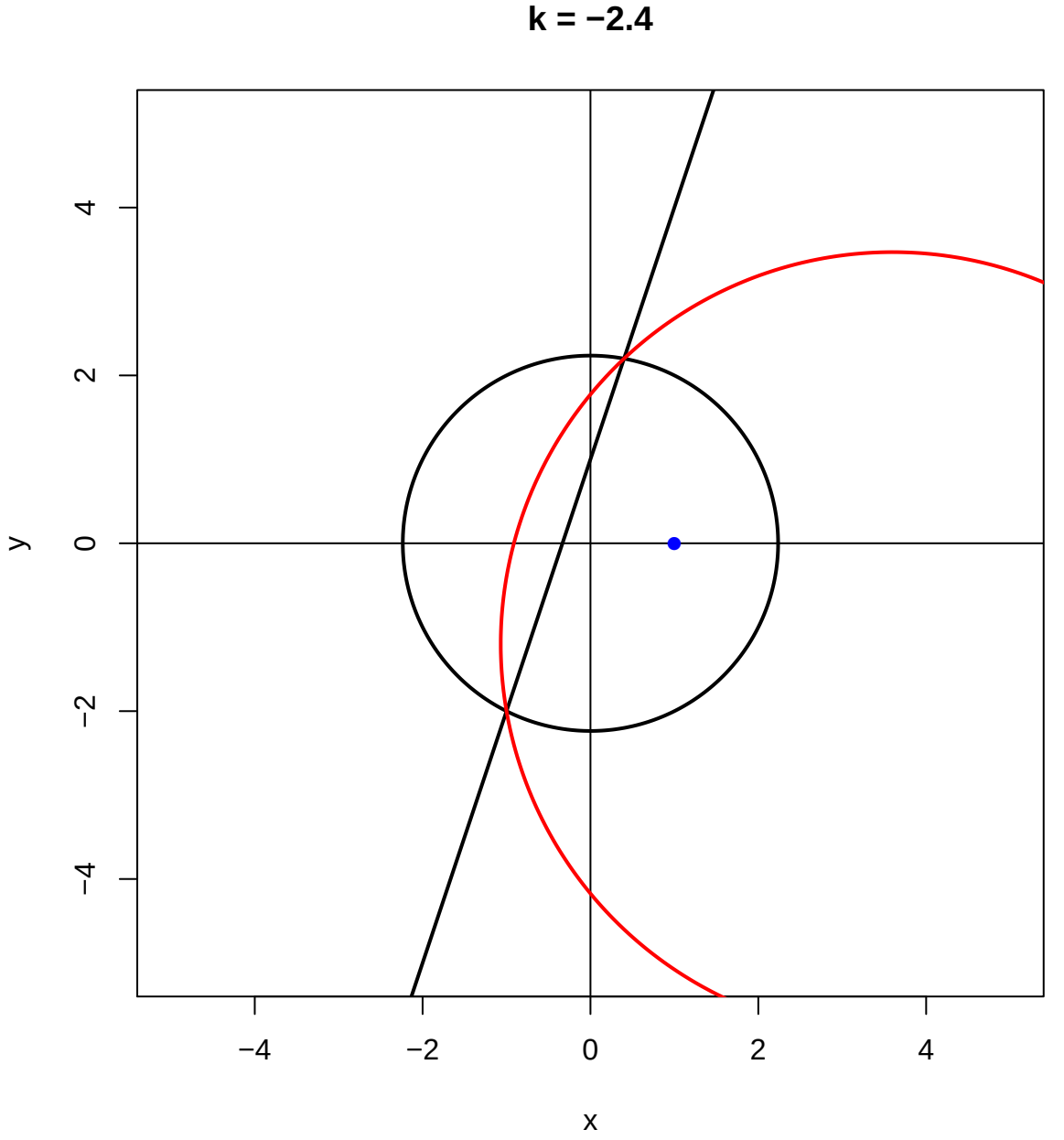
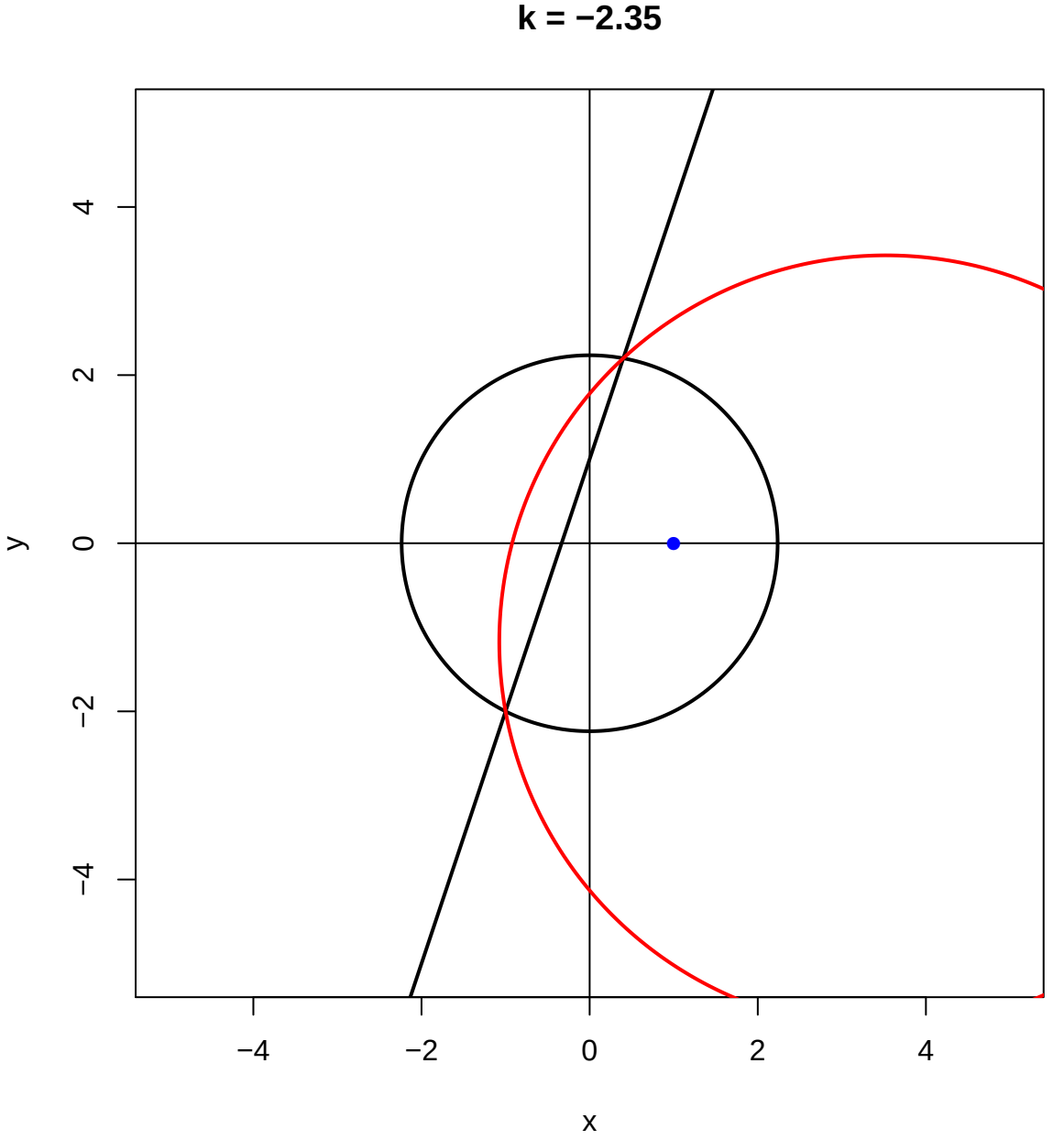
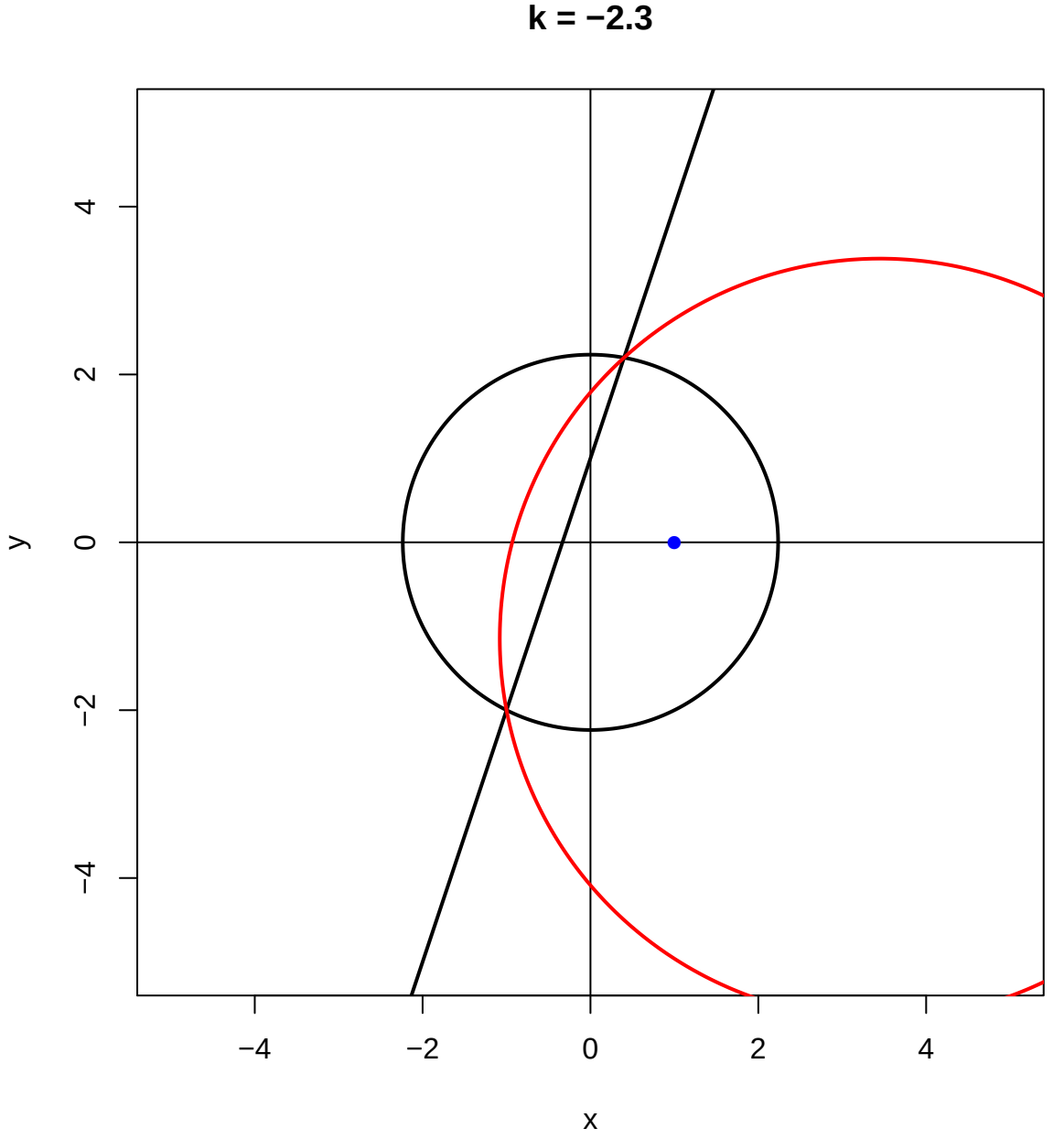
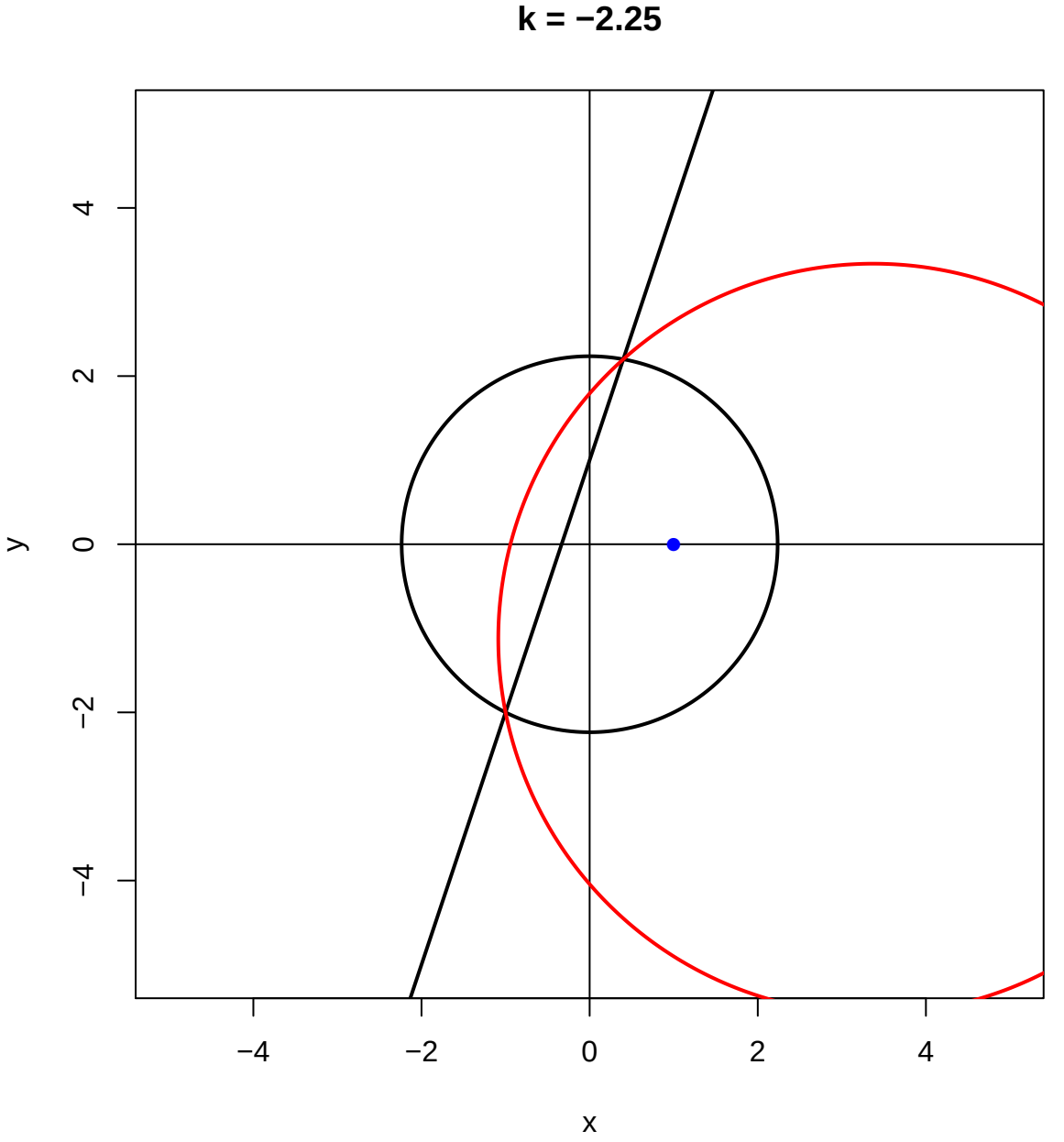
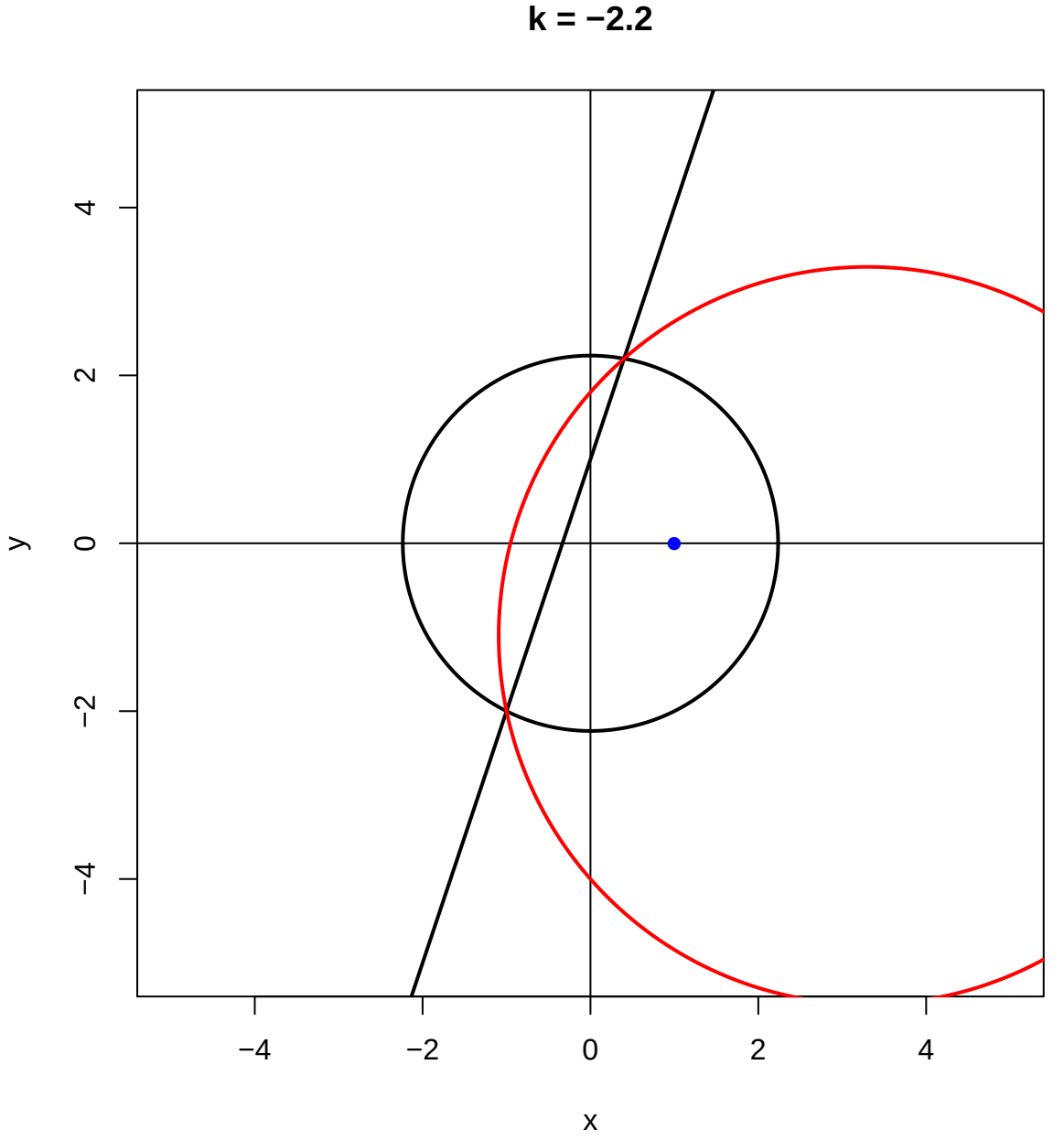
−2
−4
−4
−2
0
2
4

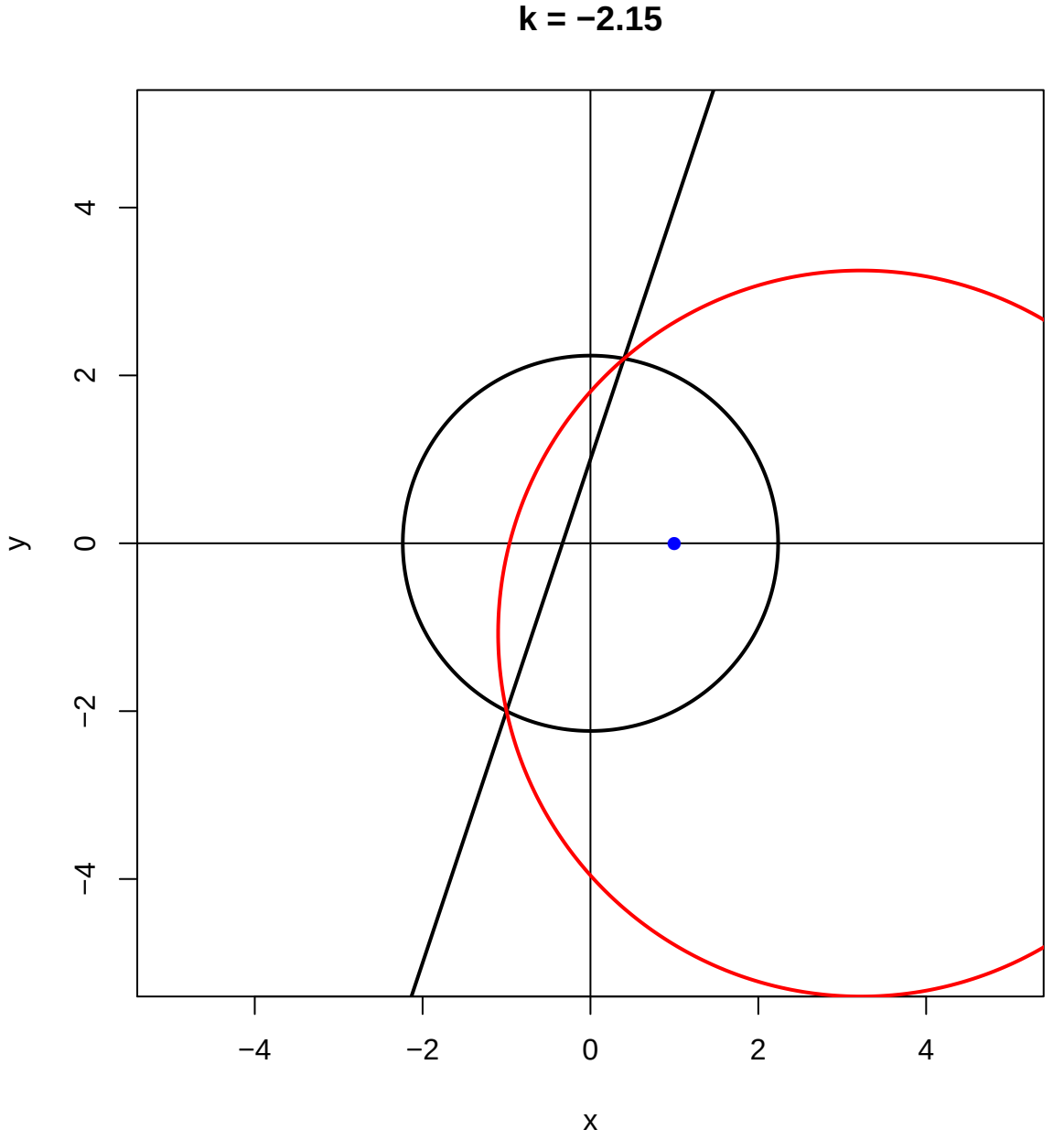

k = −2.4
y
x
4
2
0
−2
−4
−4
−2
0
2
4

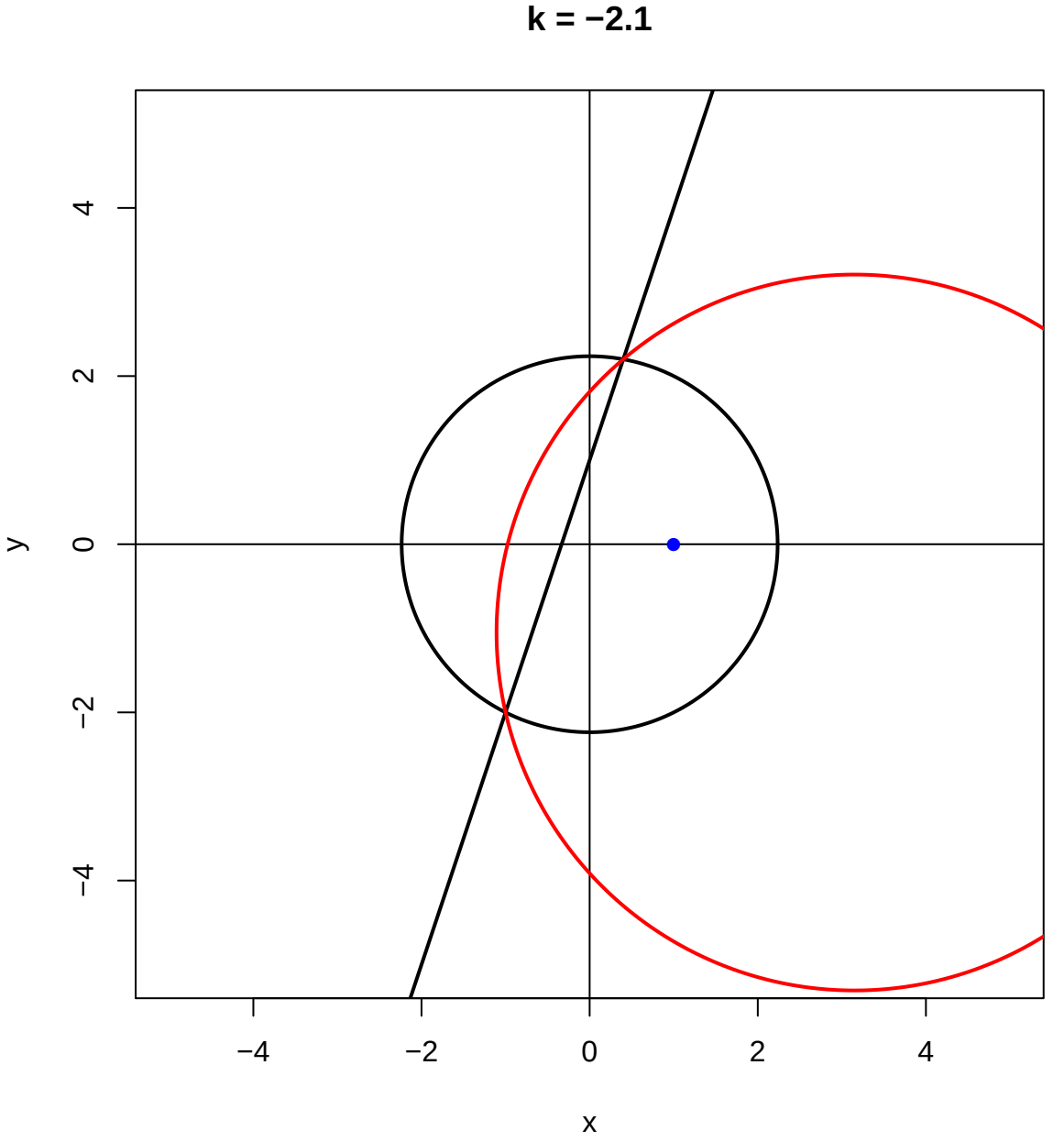

k = −2.35
y
x
4
2
0
−2
−4
−4
−2
0
2
4

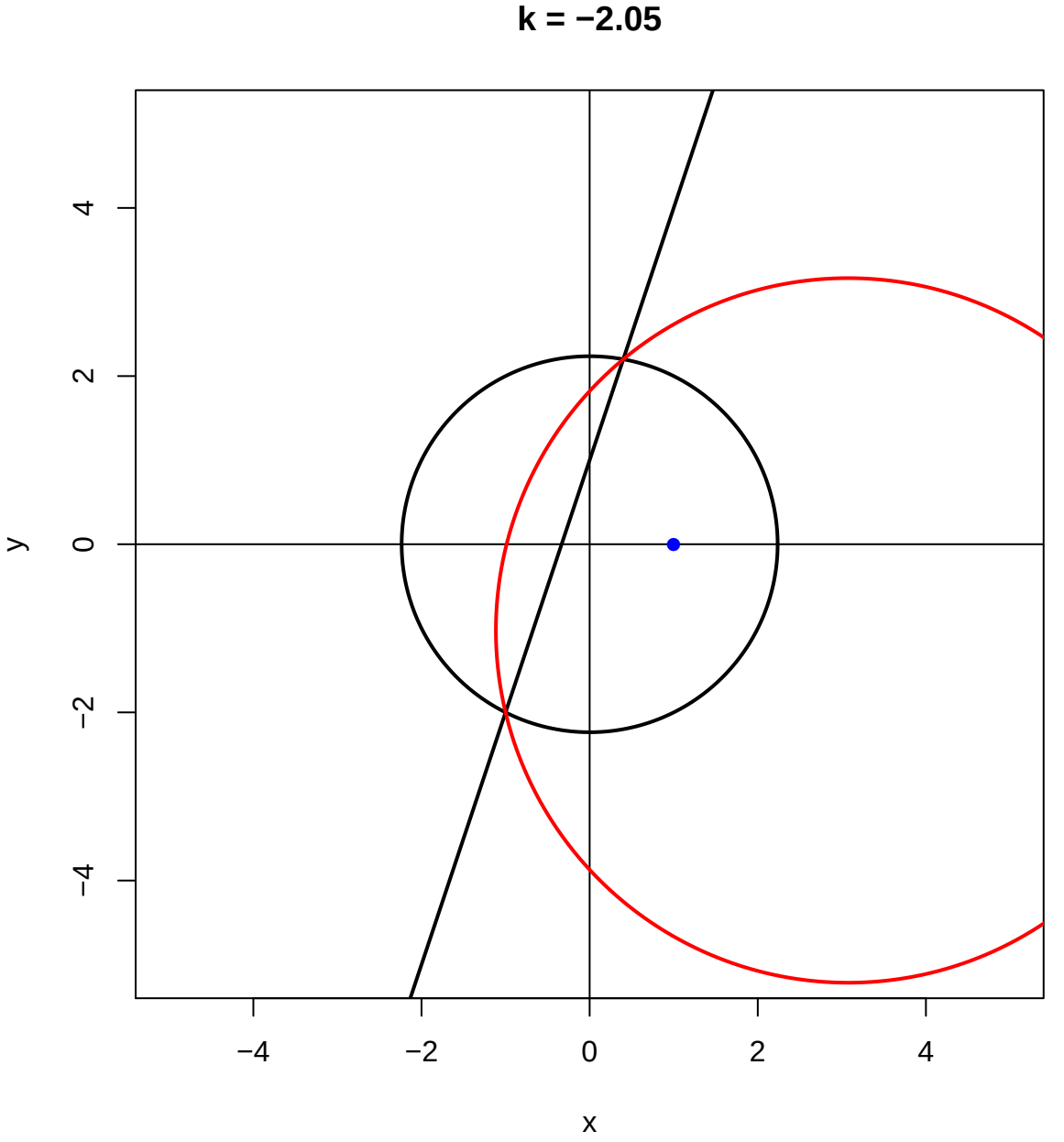

k = −2.3
y
x
4
2
0
−2
−4
−4
−2
0
2
4

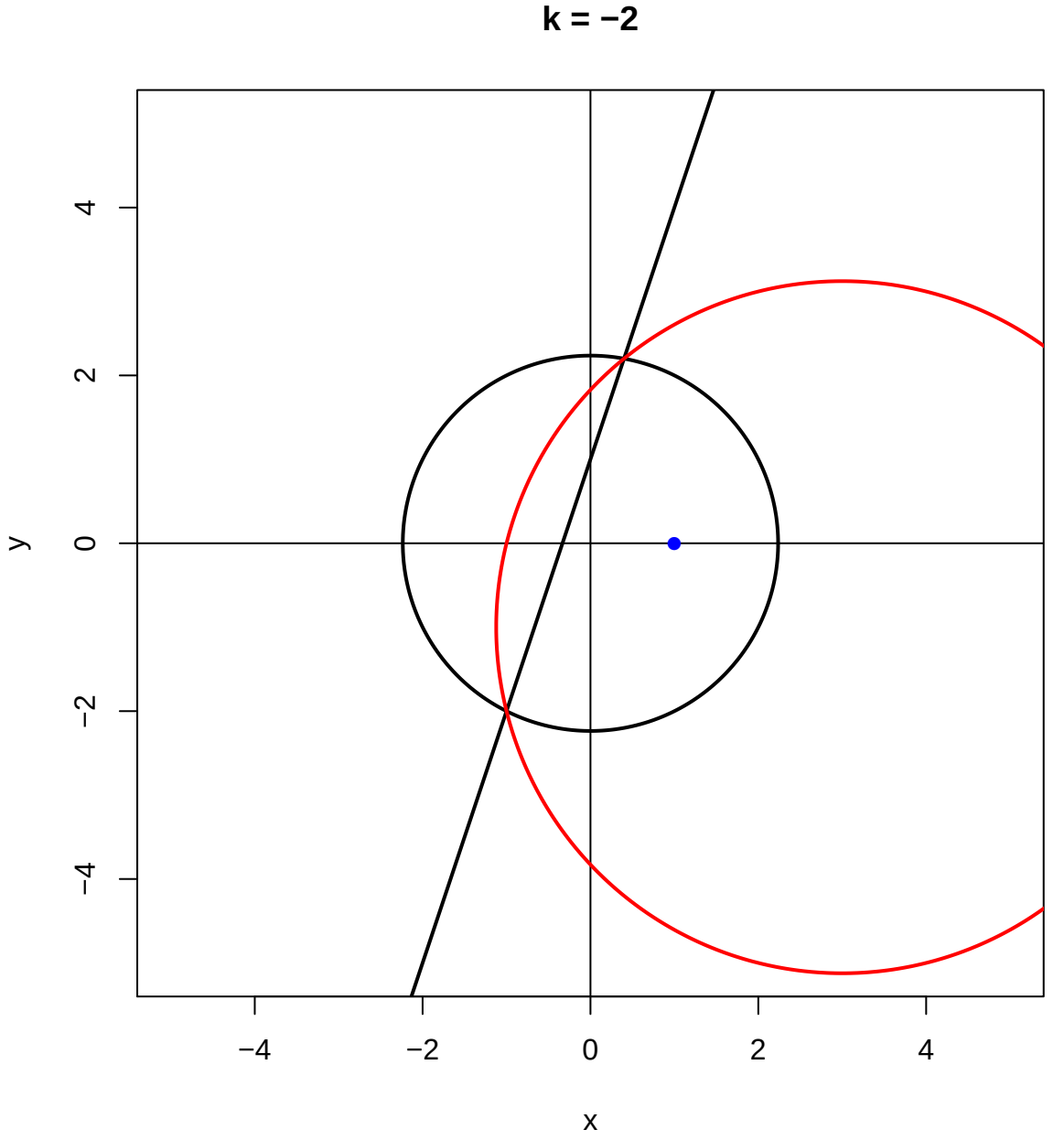

k = −2.25
y
x
4
2
0
−2
−4
−4
−2
0
2
4

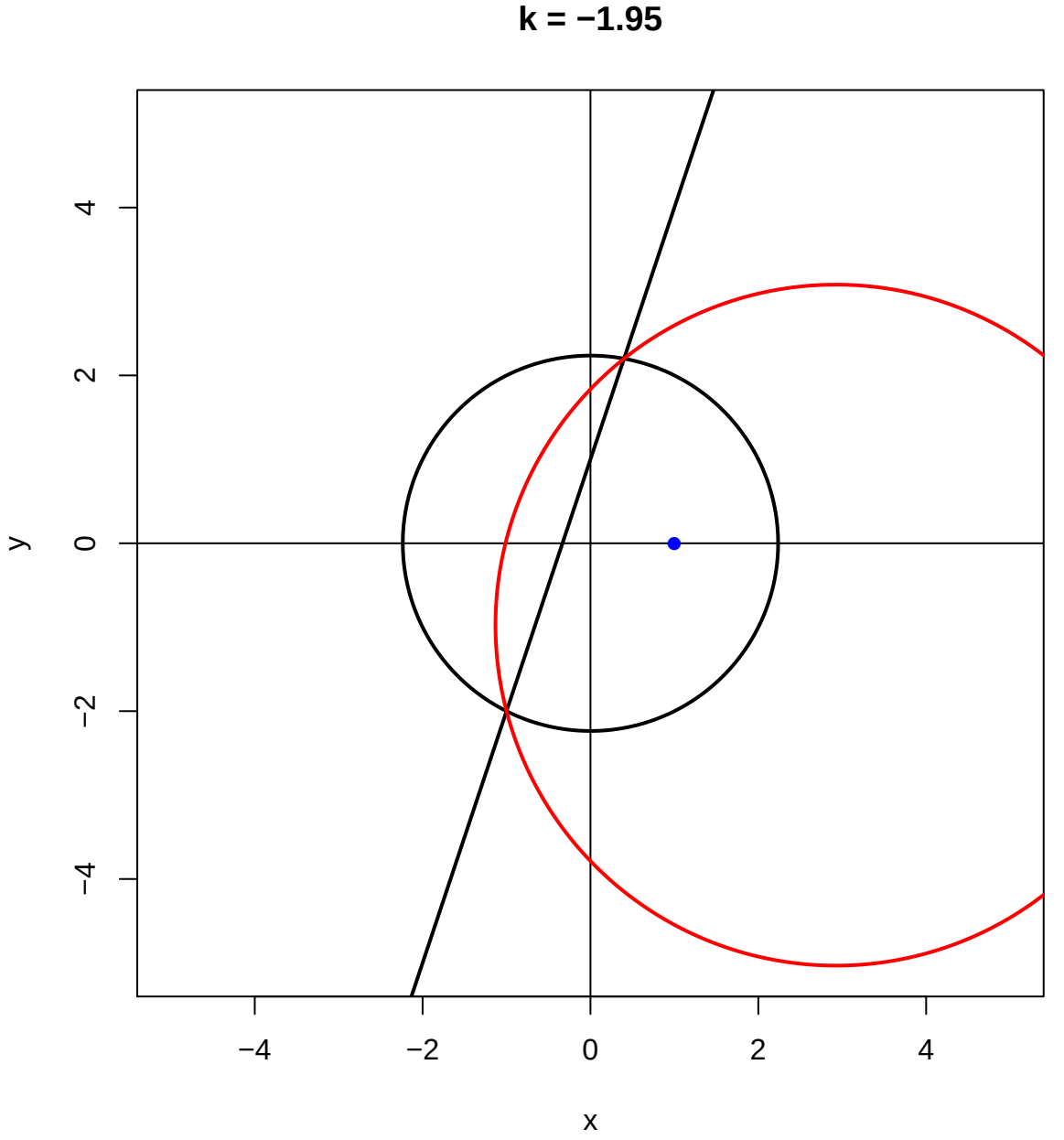

k = −2.2
y
x
4
2
0
−2
−4
−4
−2
0
2
4

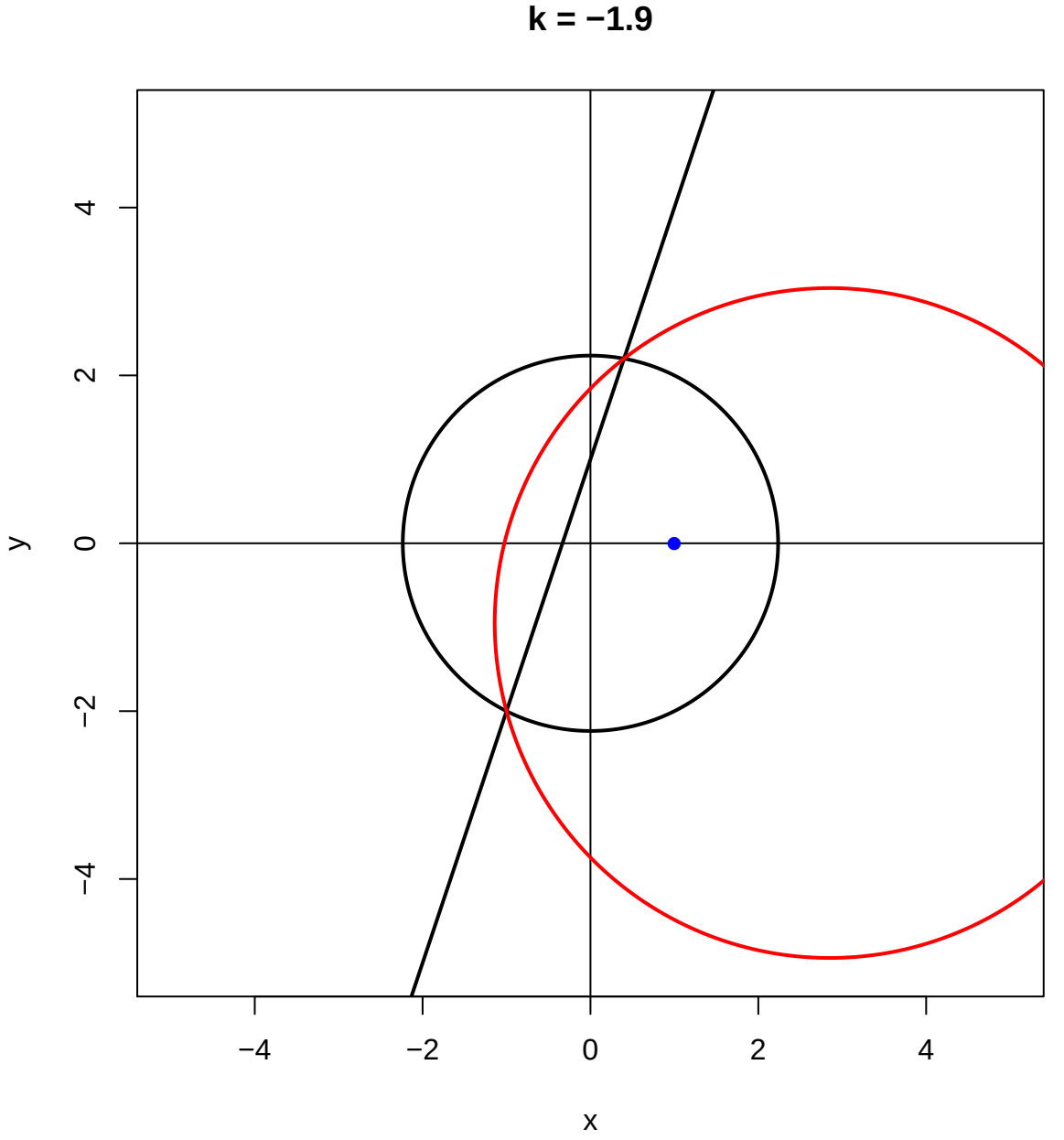

k = −2.15
y
x
4
2
0
−2
−4
−4
−2
0
2
4

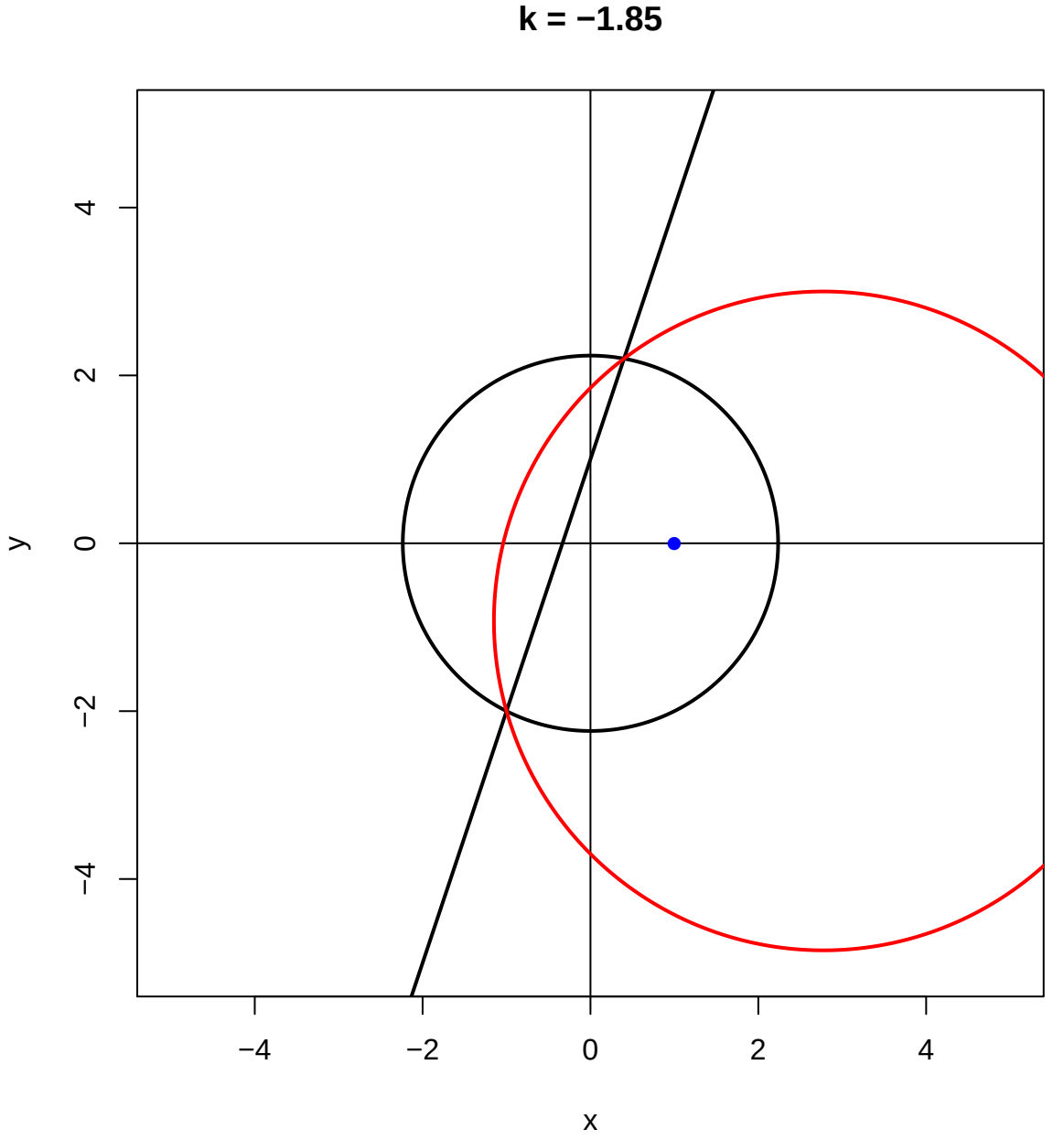

k = −2.1
y
x
4
2
0
−2
−4
−4
−2
0
2
4

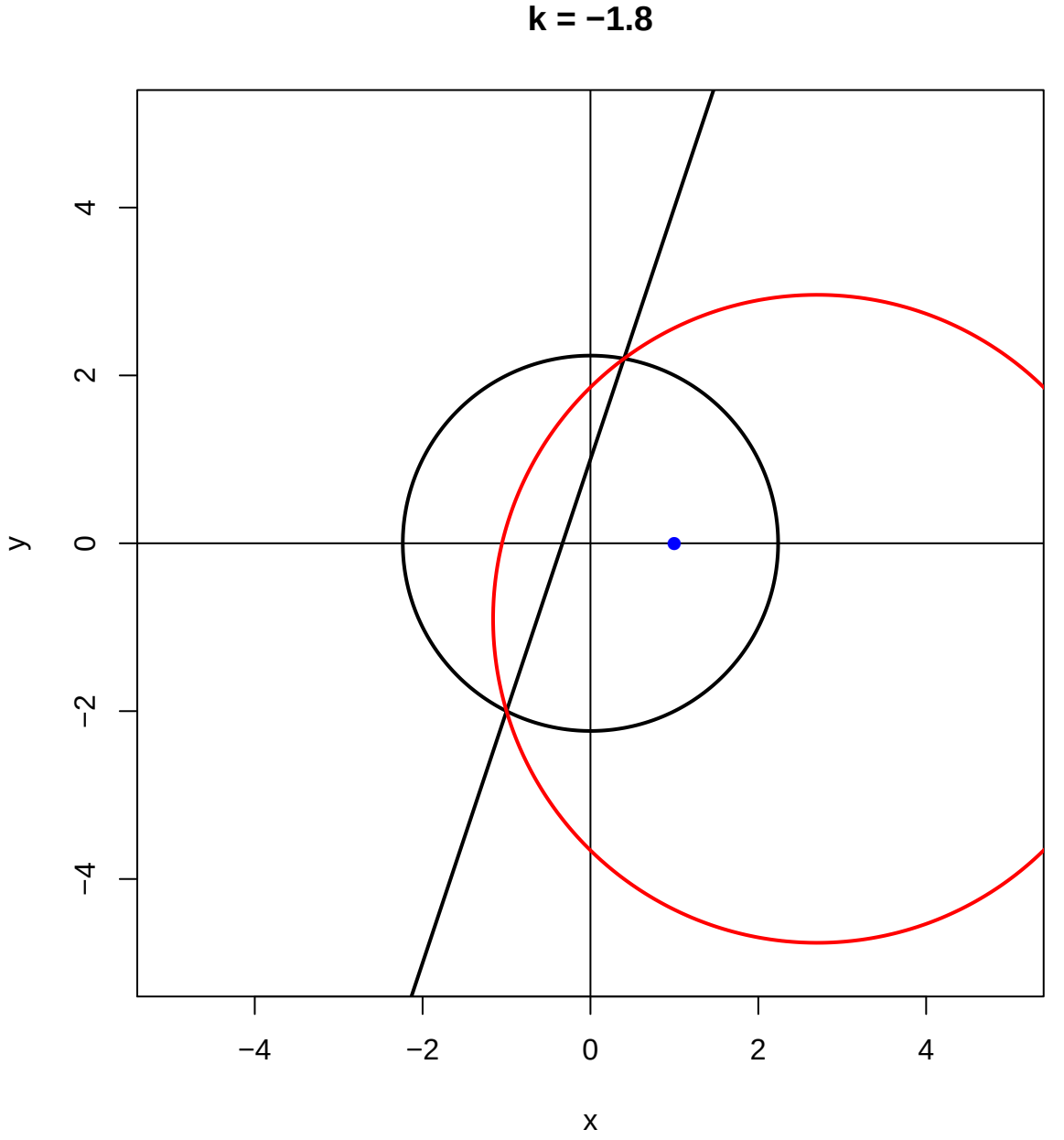

k = −2.05
y
x
4
2
0
−2
−4
−4
−2
0
2
4

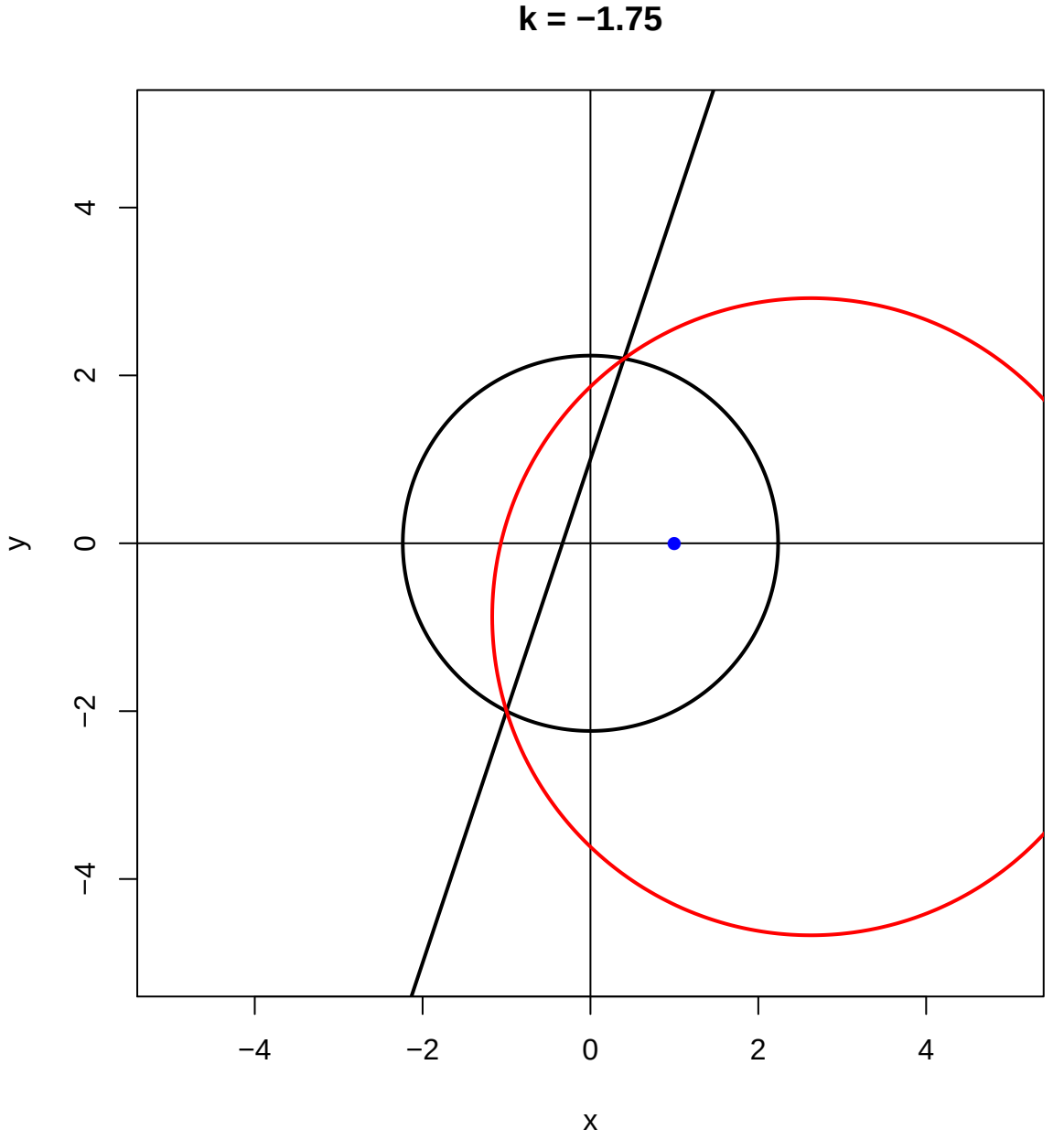

k = −2
y
x
4
2
0
−2
−4
−4
−2
0
2
4


k = −1.95
y
x
4
2
0
−2
−4
−4
−2
0
2
4


k = −1.9
y
x
4
2
0
−2
−4
−4
−2
0
2
4


k = −1.85
y
x
4
2
0
−2
−4
−4
−2
0
2
4


k = −1.8
y
x
4
2
0
−2
−4
−4
−2
0
2
4


k = −1.75
y
x
4
2
0
−2
−4
−4
−2
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2
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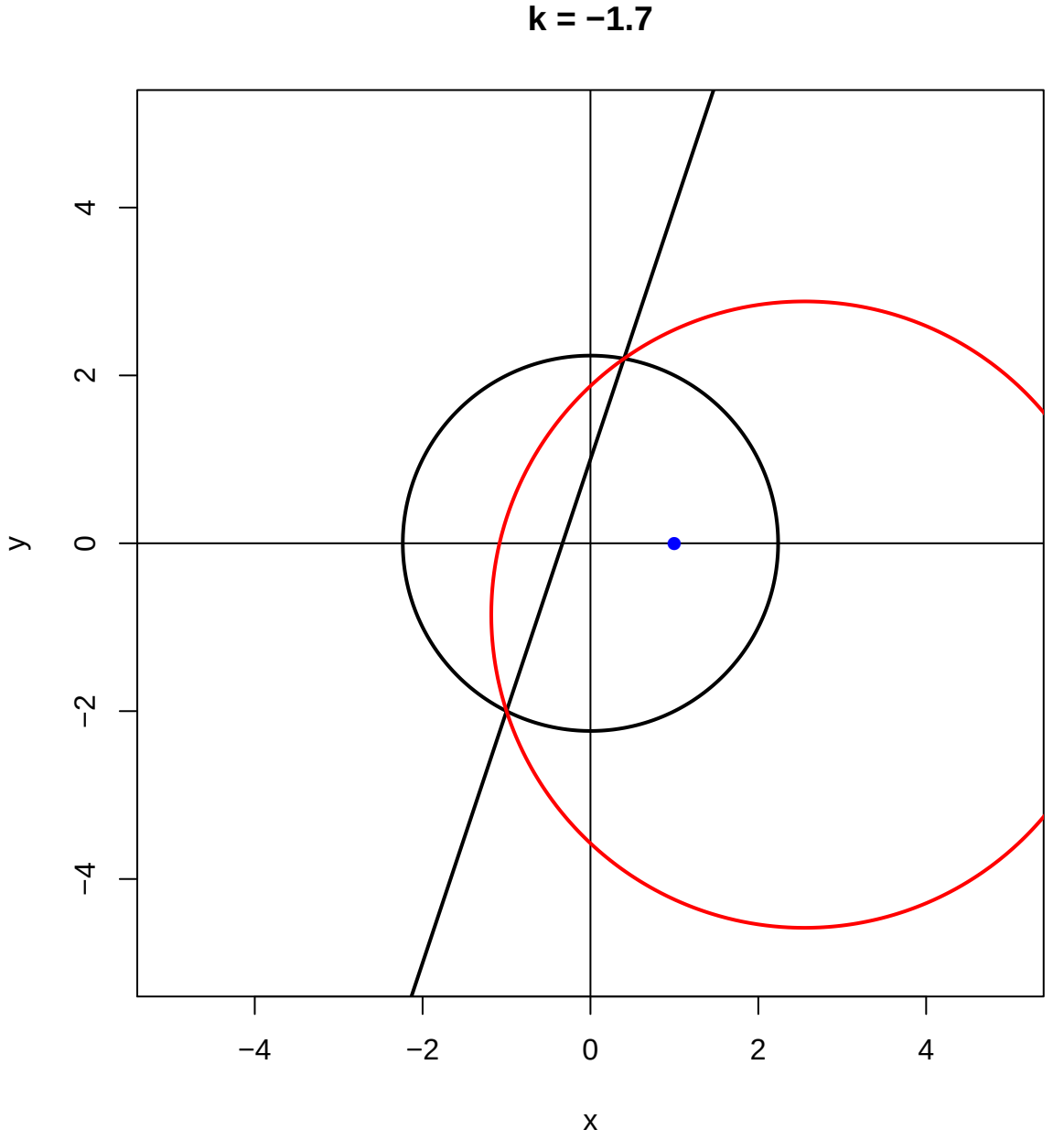
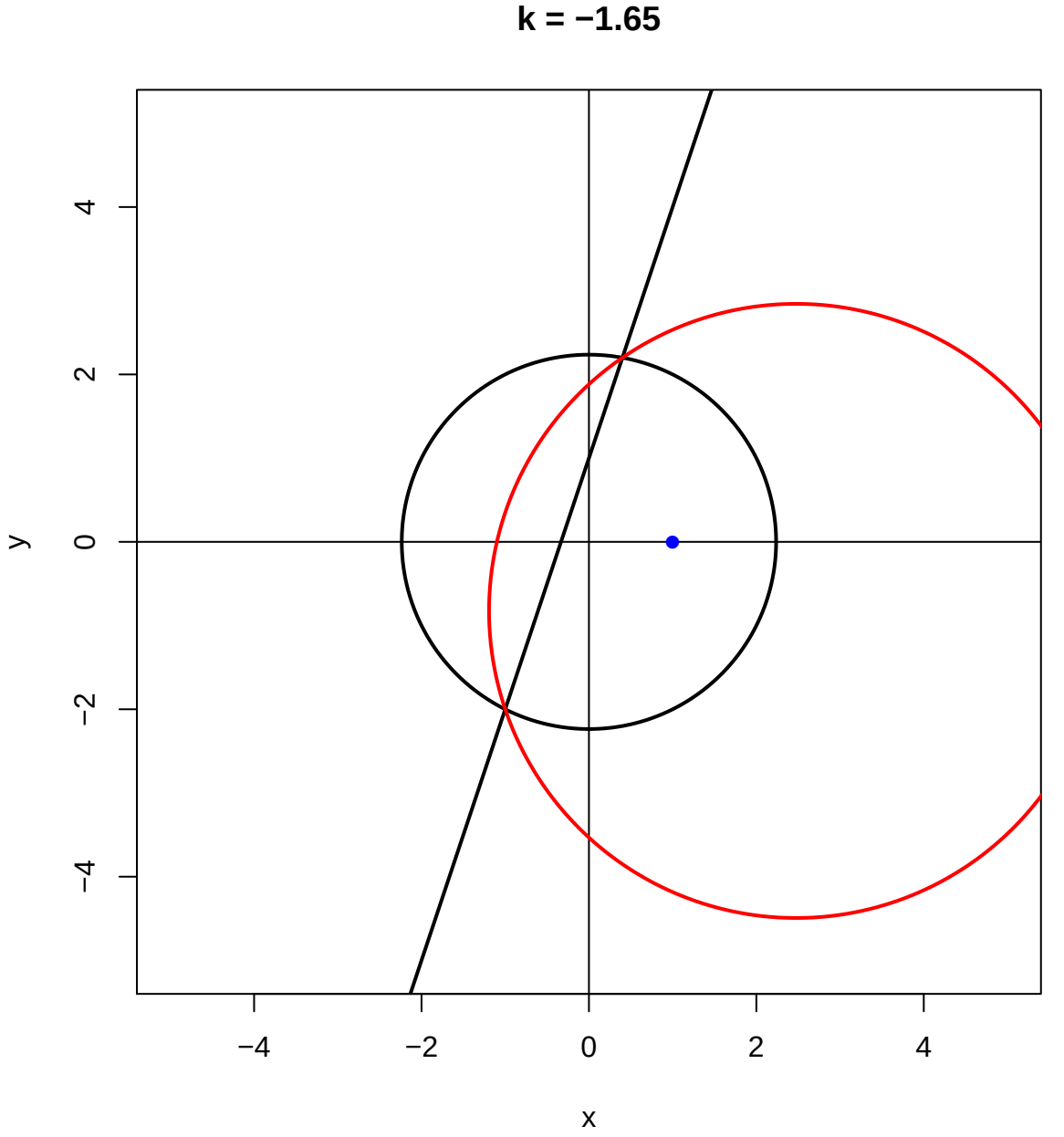
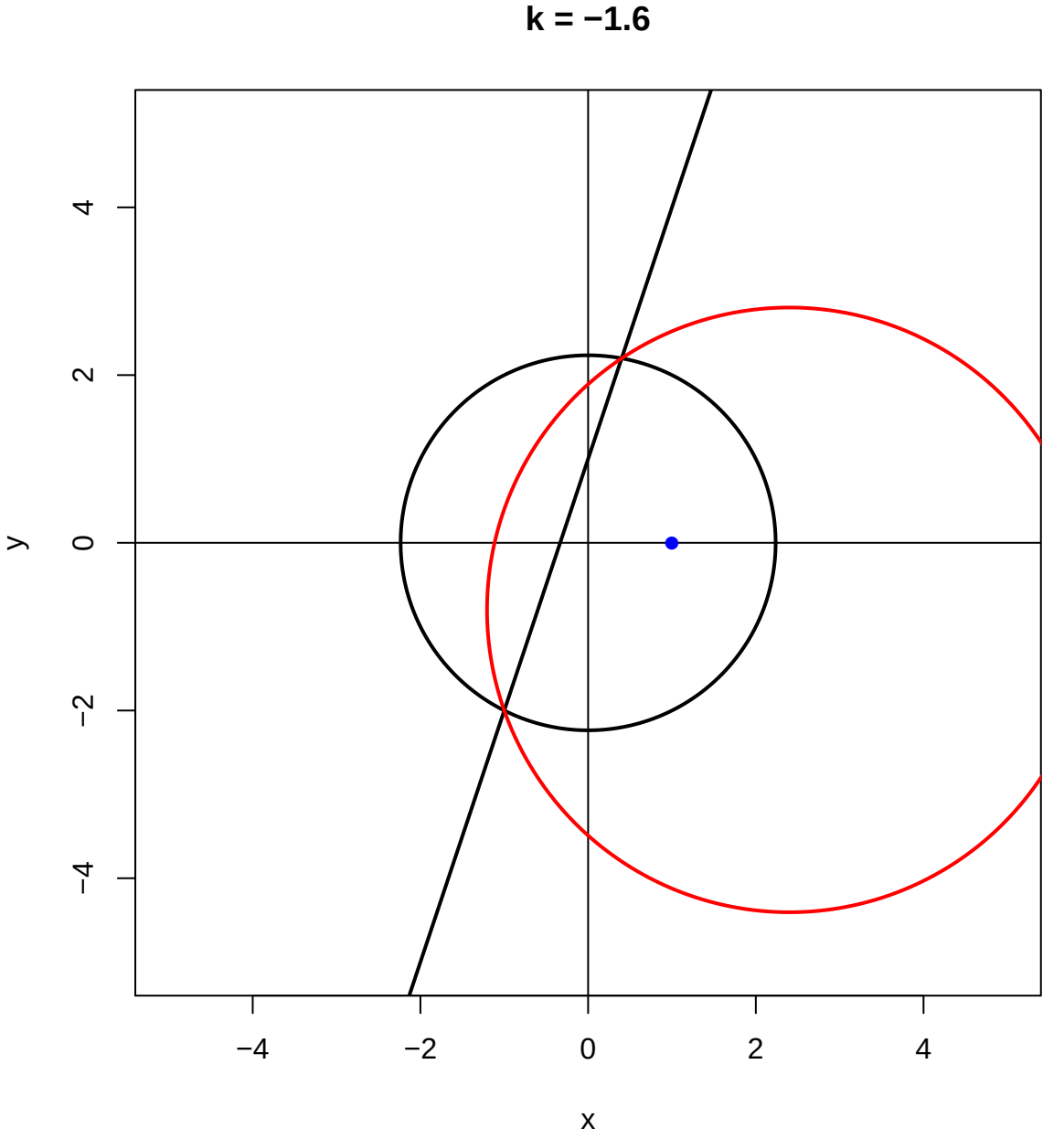

k = −1.7
y
x
4
2
0
−2
−4
−4
−2
0
2
4


k = −1.65
y
x
4
2
0
−2
−4
−4
−2
0
2
4


k = −1.6
y
x
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2
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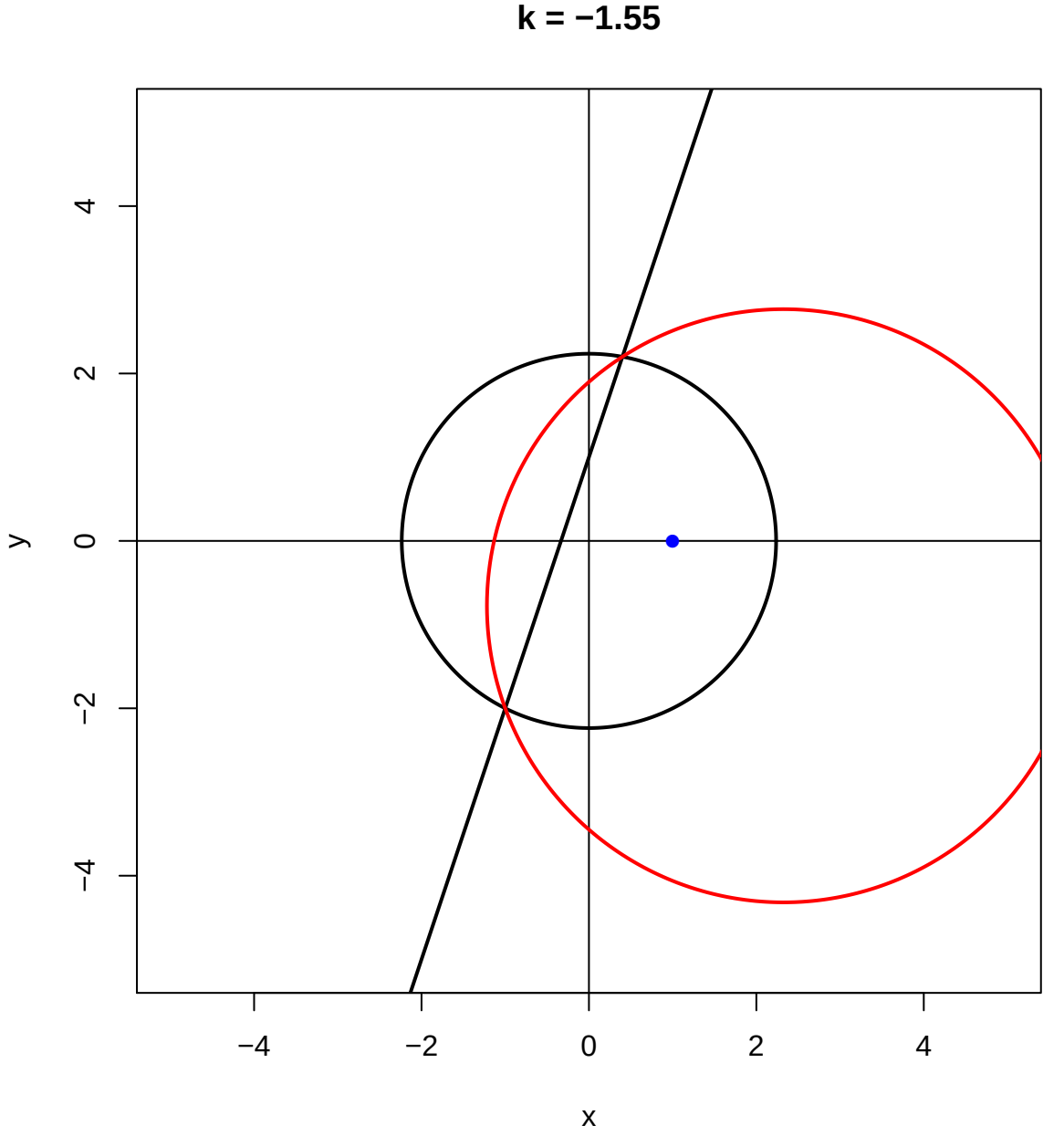
−2
−4
−4
−2
0
2
4


k = −1.55
y
x
4
2
0
−2
−4
−4
−2
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2
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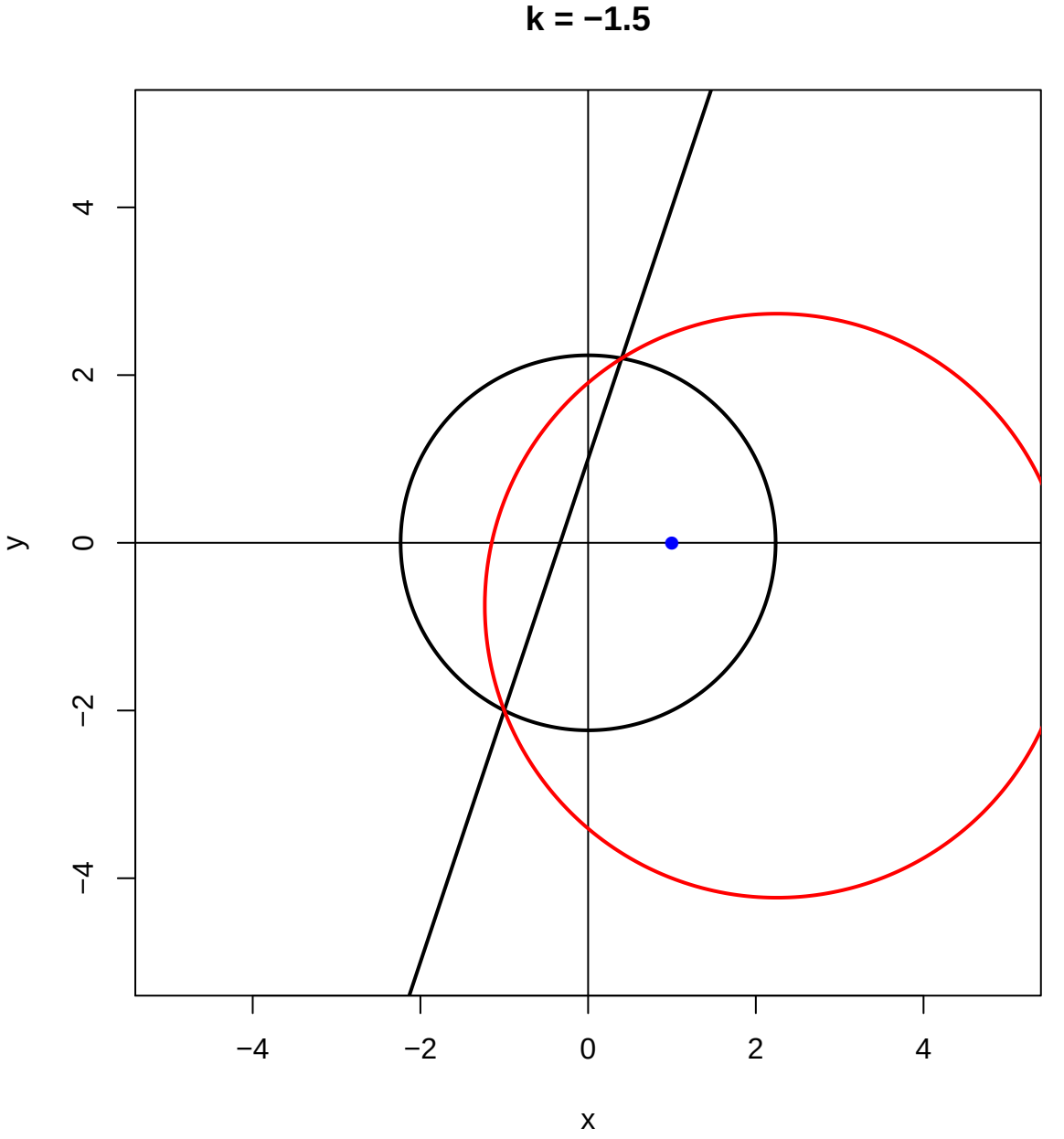
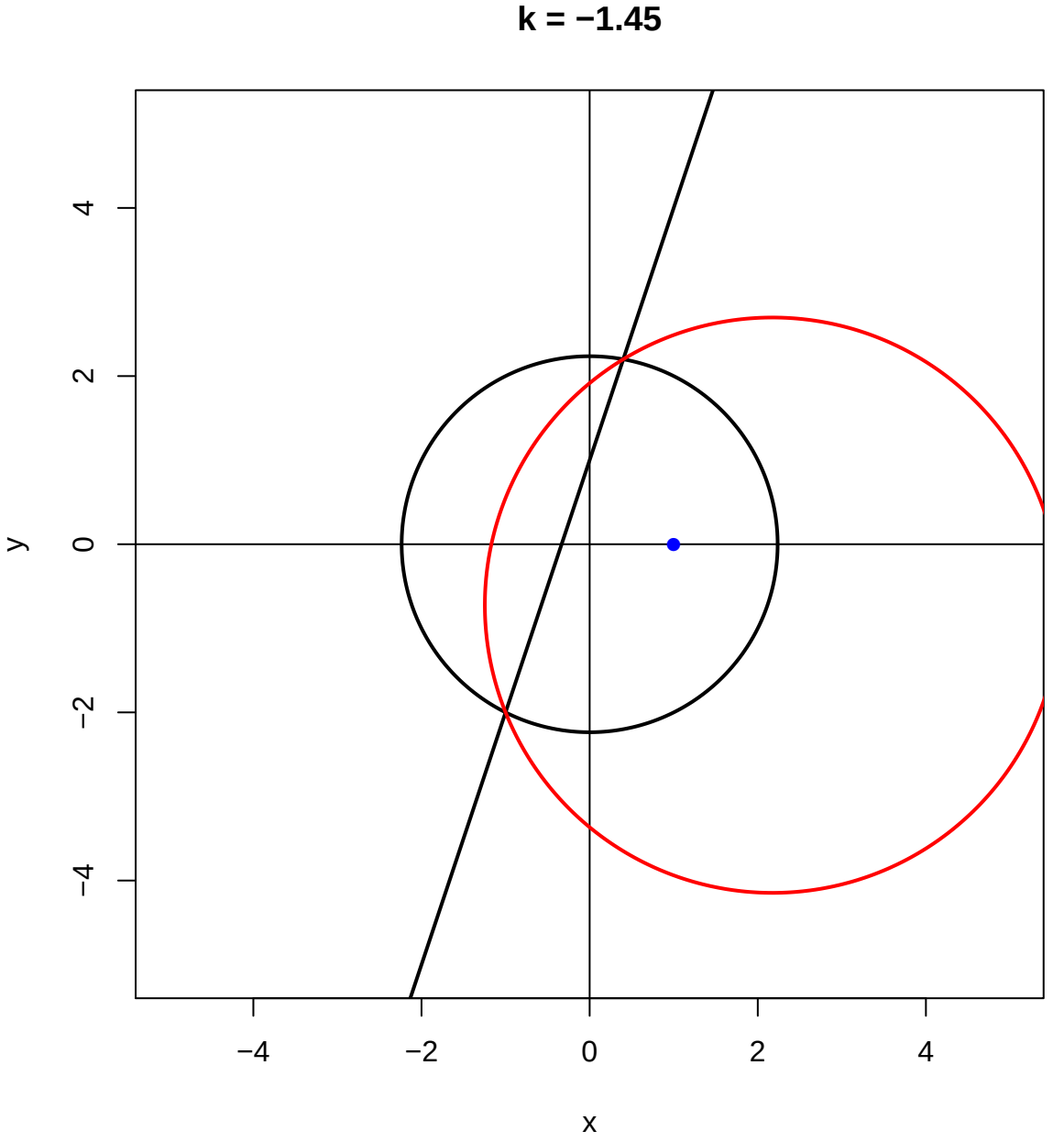
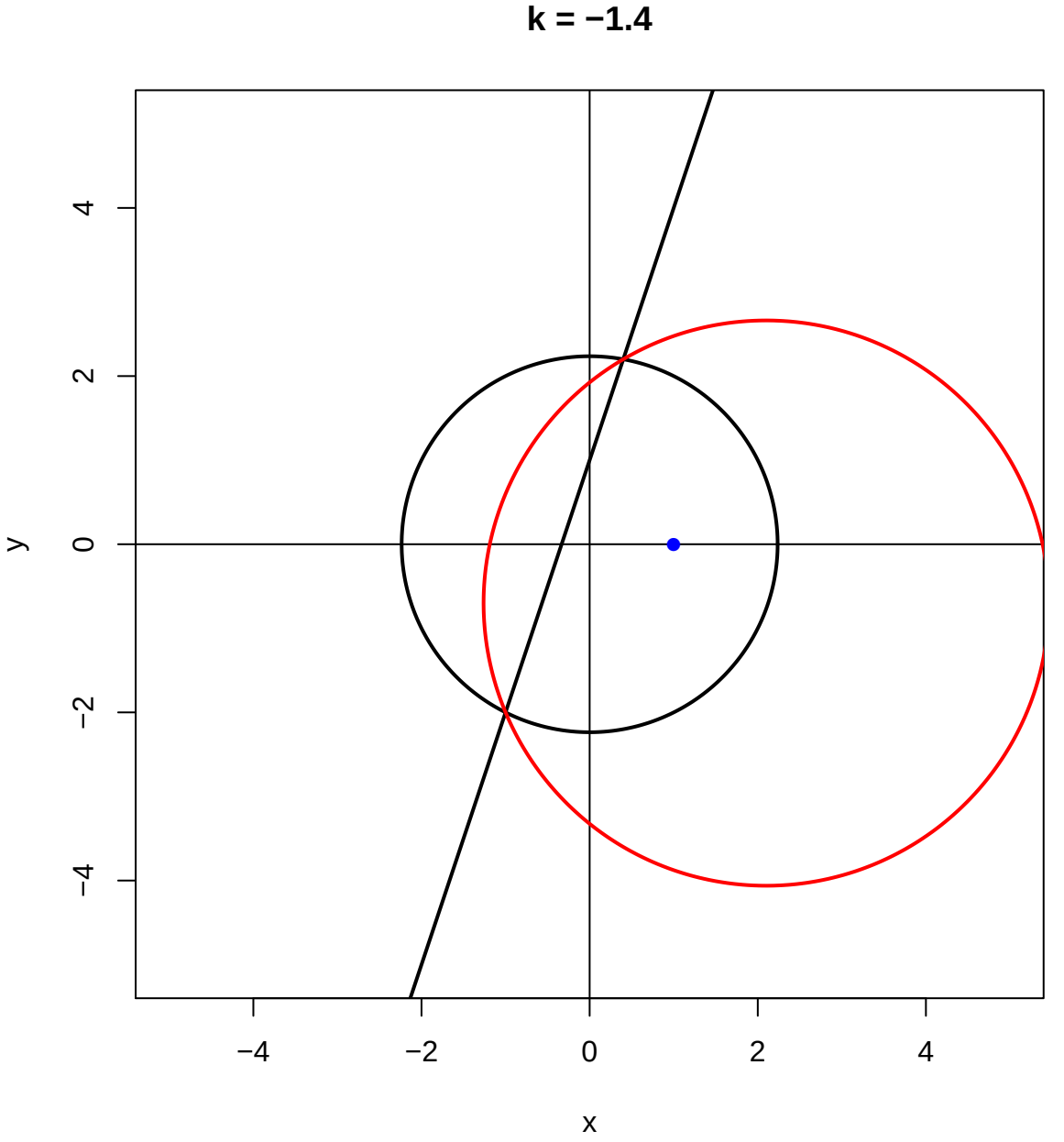
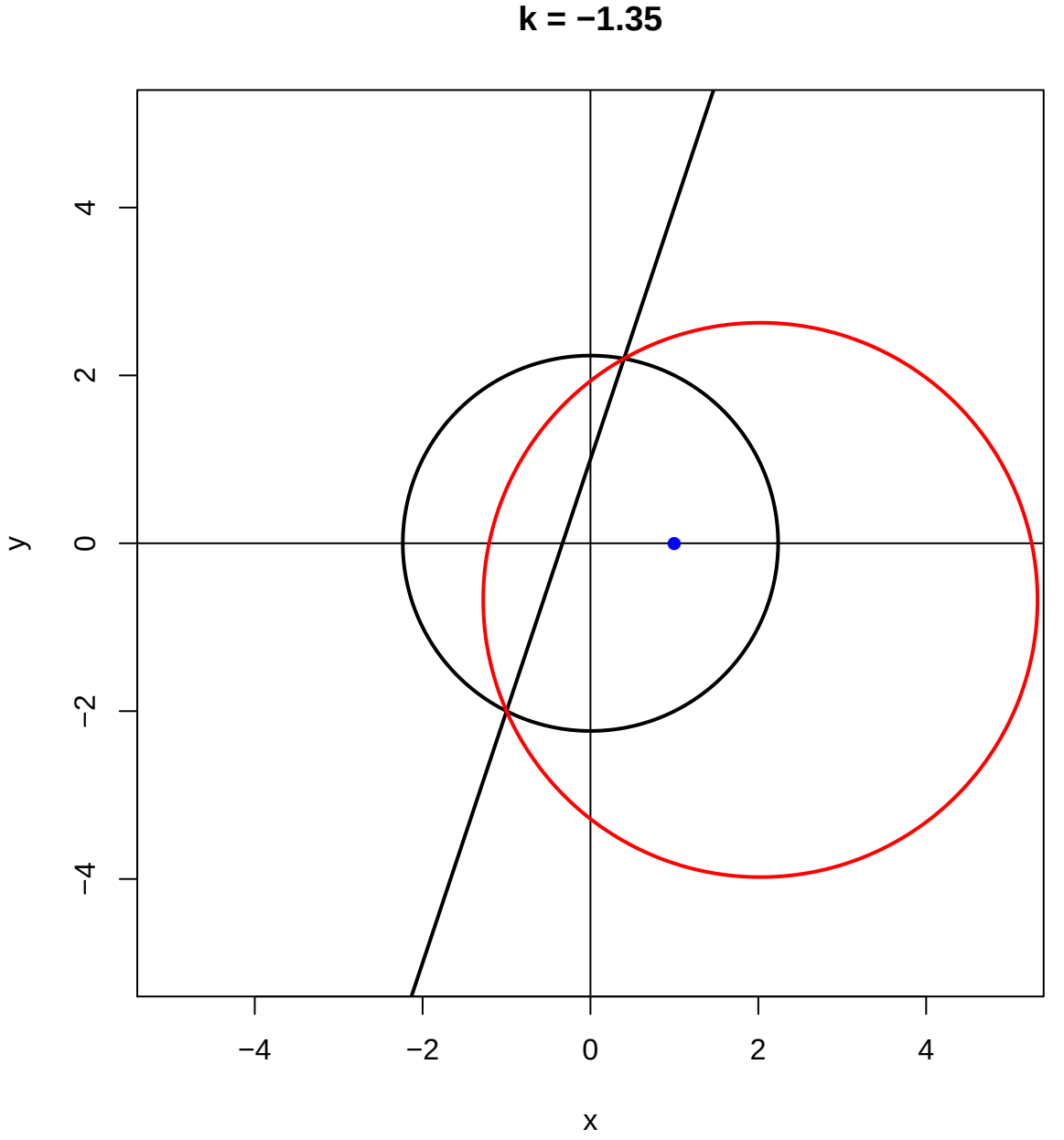

k = −1.5
y
x
4
2
0
−2
−4
−4
−2
0
2
4


k = −1.45
y
x
4
2
0
−2
−4
−4
−2
0
2
4


k = −1.4
y
x
4
2
0
−2
−4
−4
−2
0
2
4


k = −1.35
y
x
4
2
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−2
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−2
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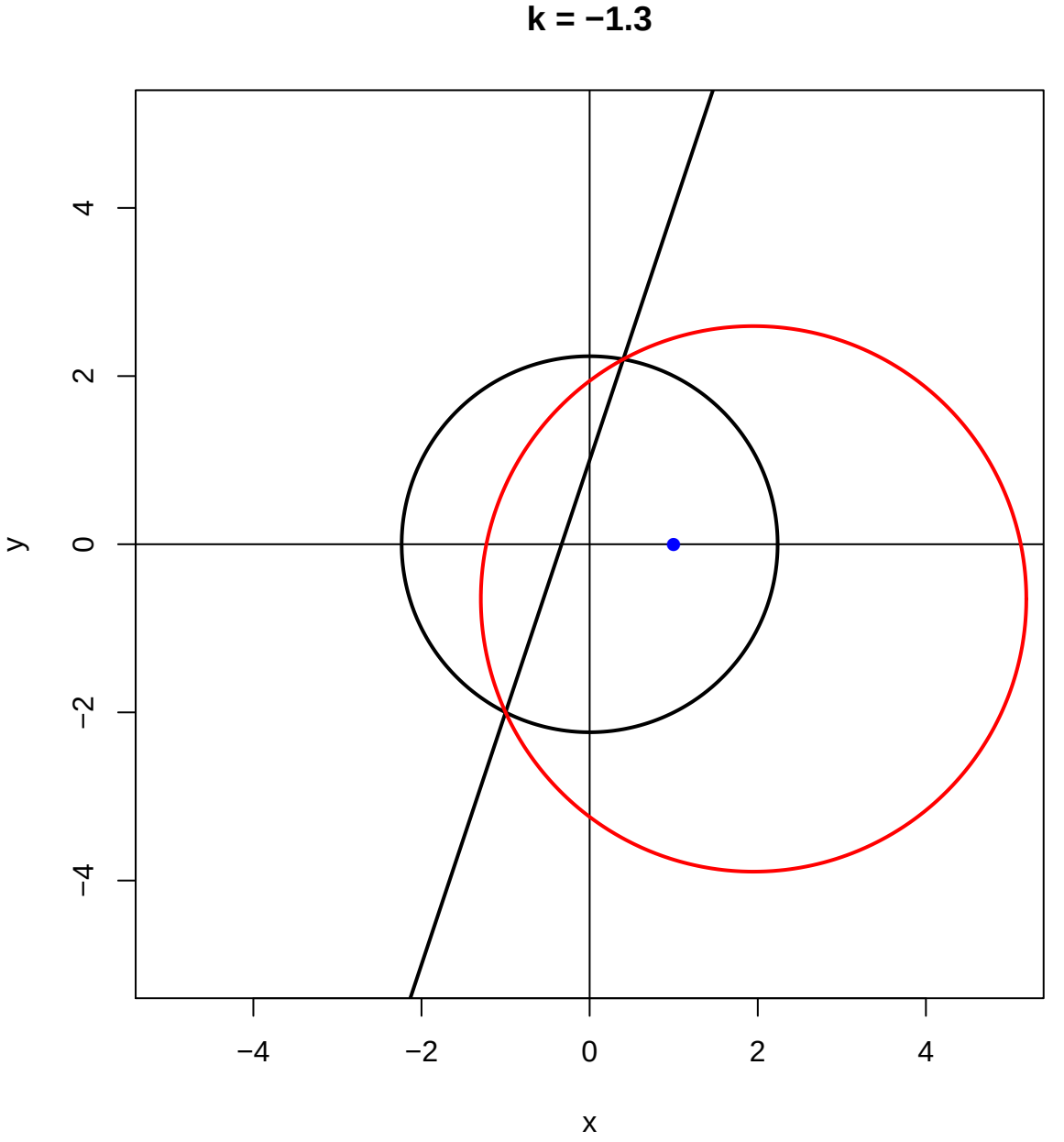
2
4


k = −1.3
y
x
4
2
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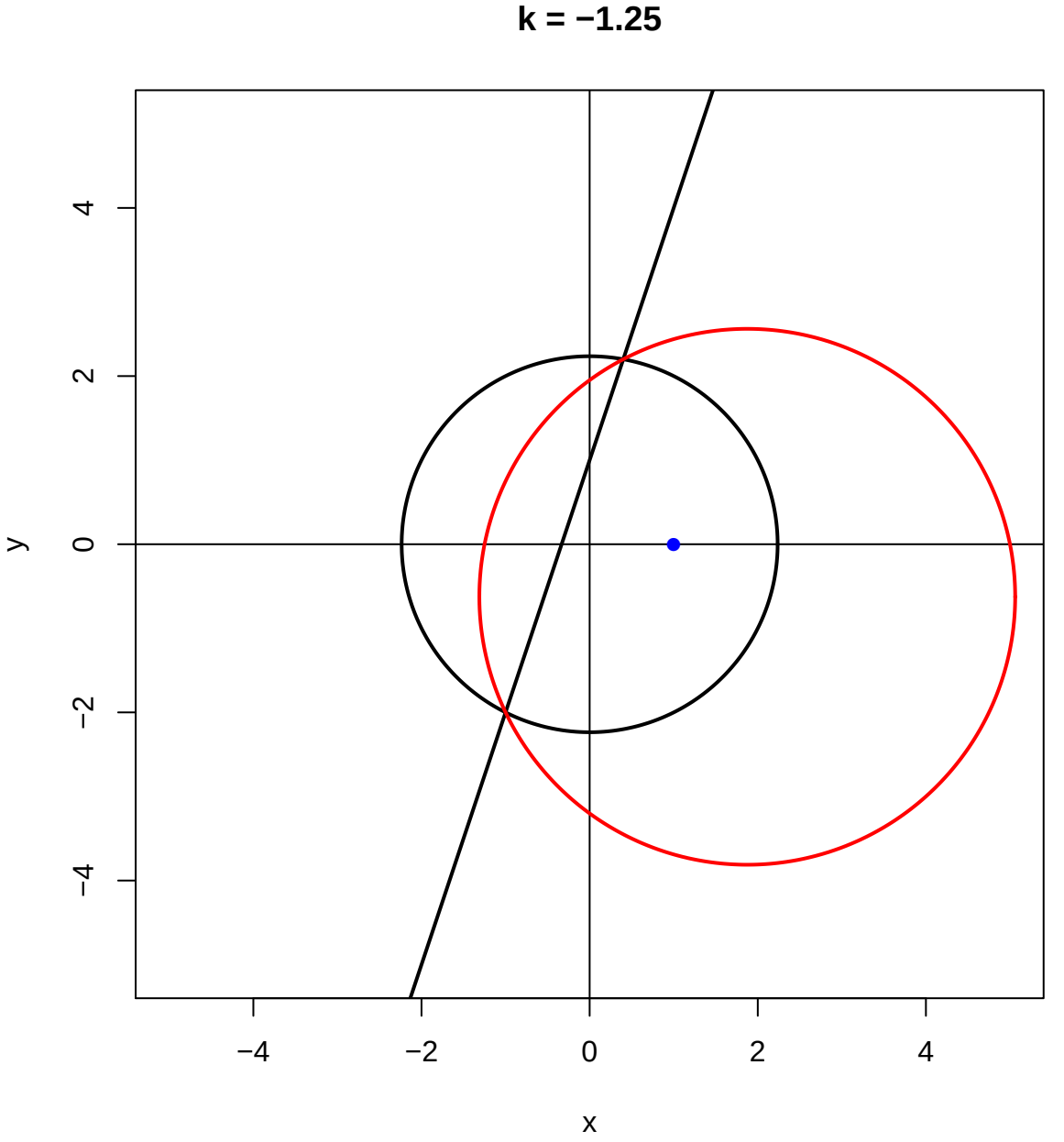
−2
−4
−4
−2
0
2
4


k = −1.25
y
x
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2
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−2
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−2
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2
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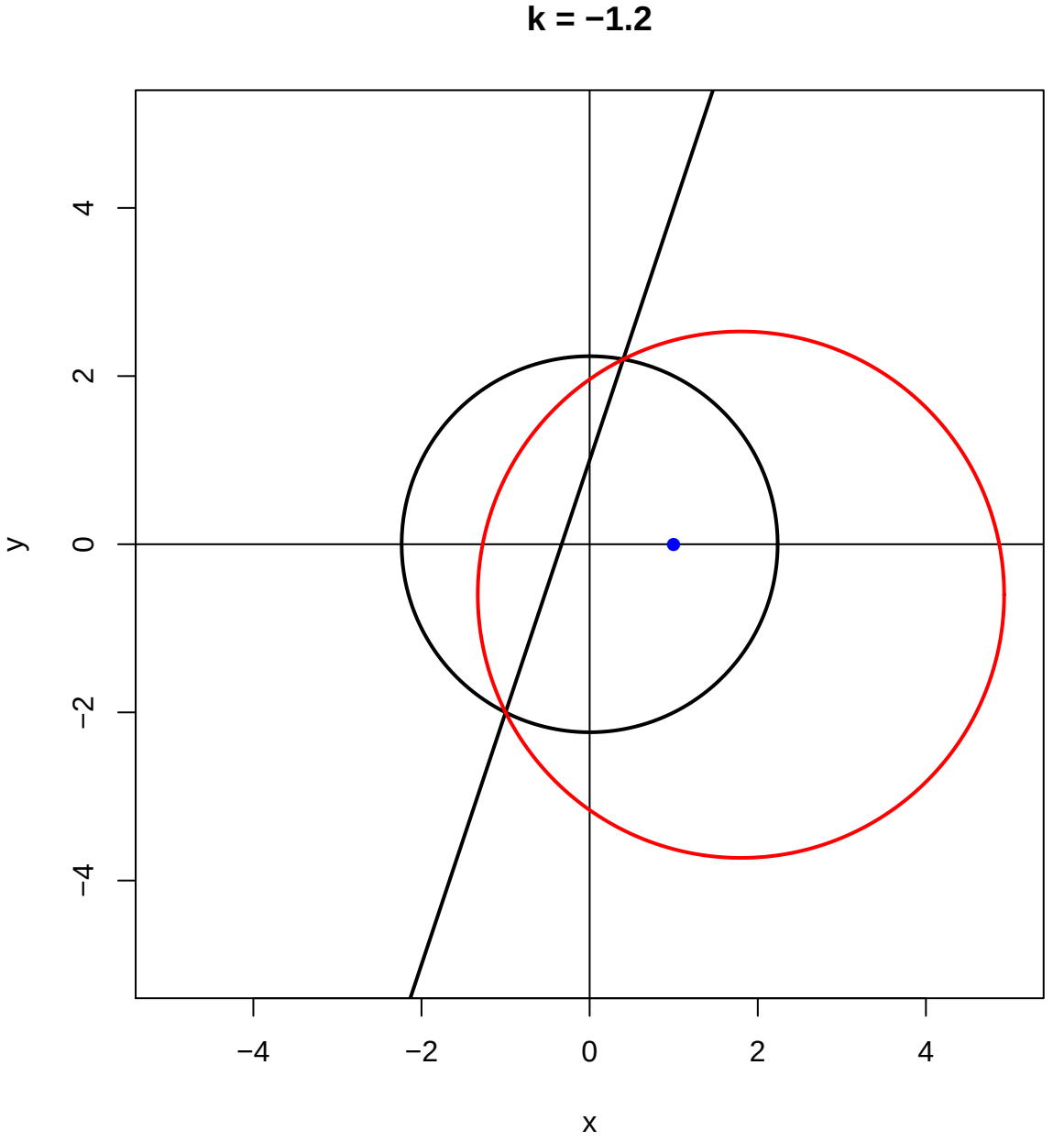
k = −1.2
y
x
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2
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−2
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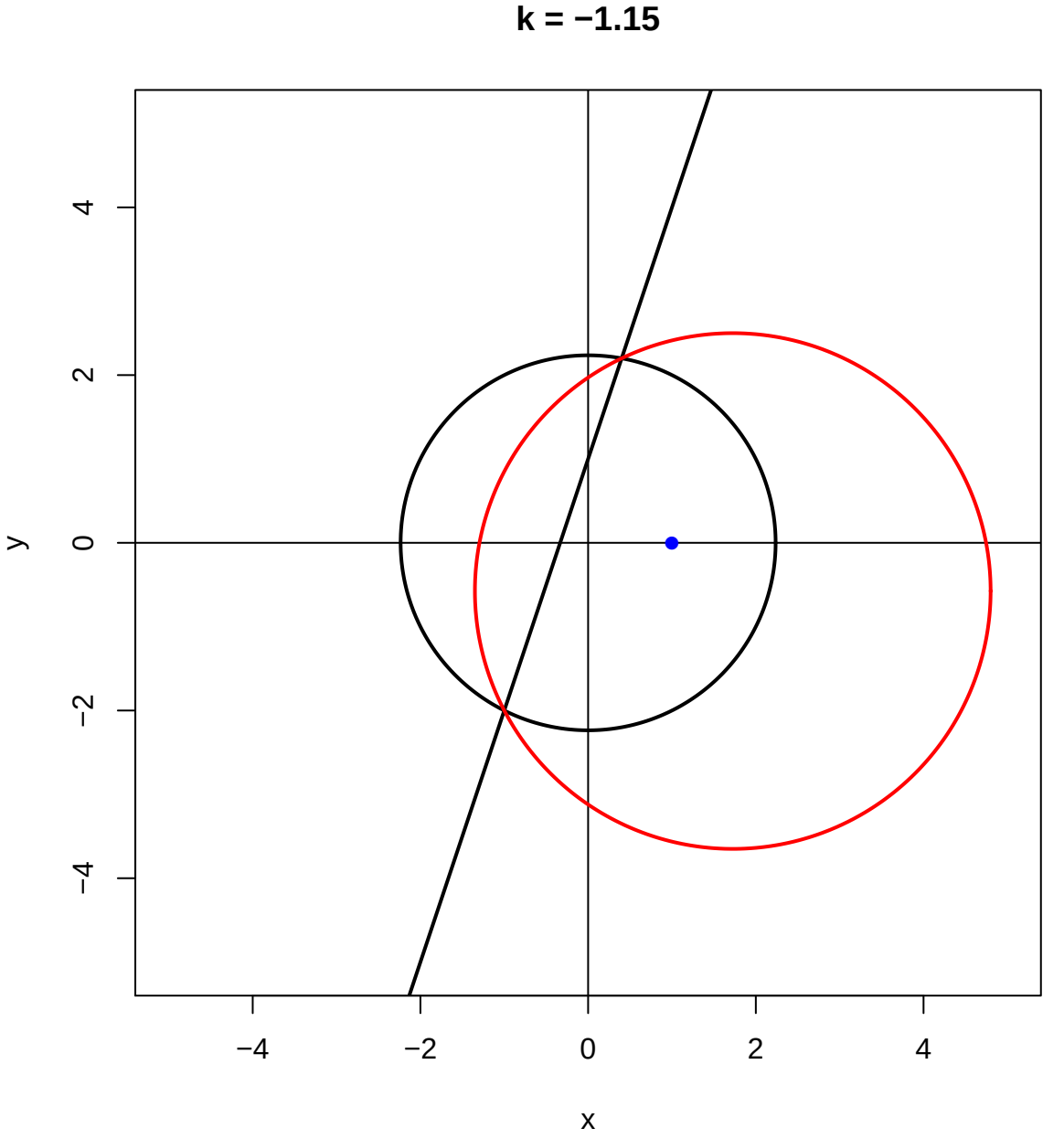
2
4


k = −1.15
y
x
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2
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−2
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2
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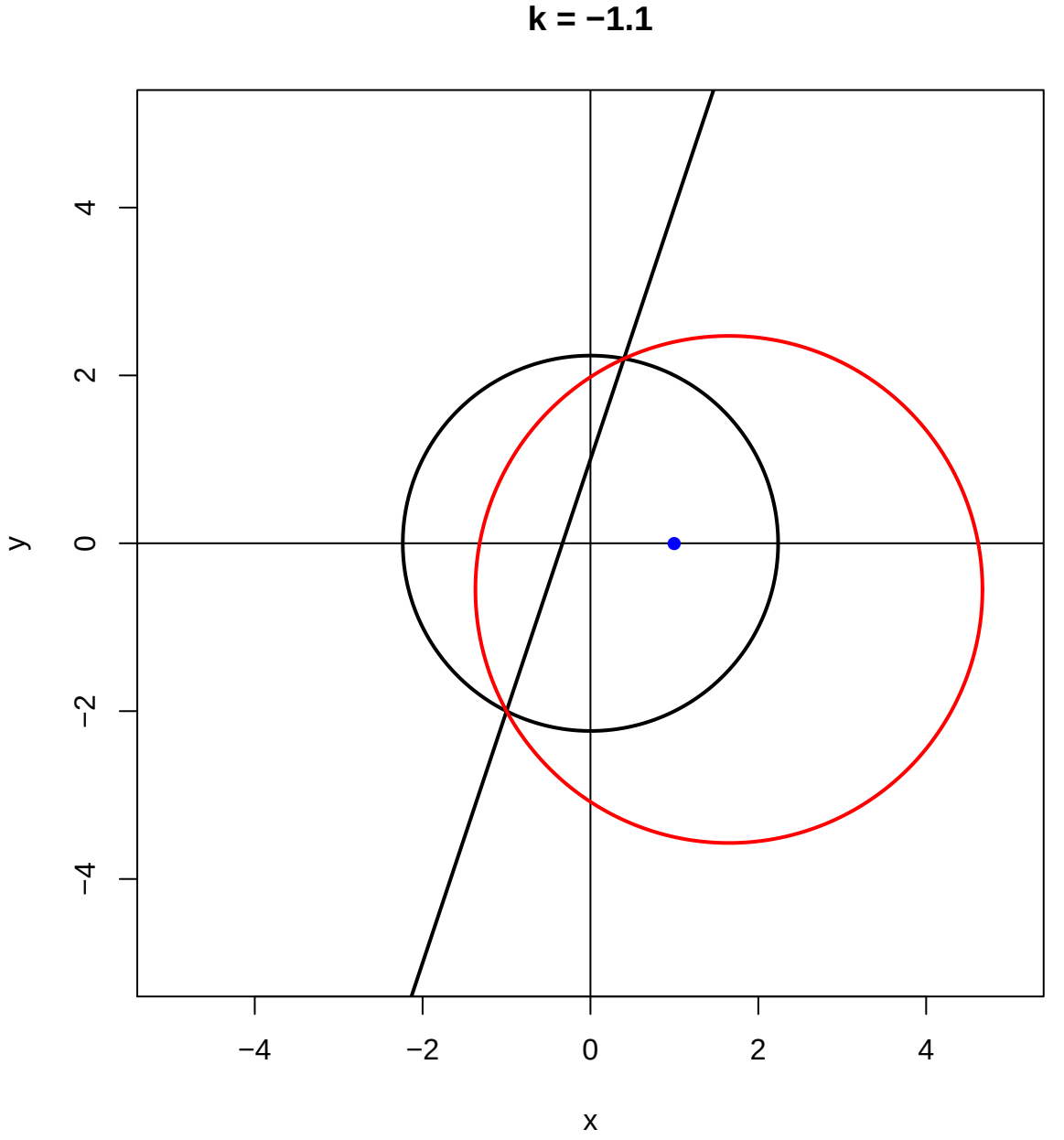
k = −1.1
y
x
4
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−2
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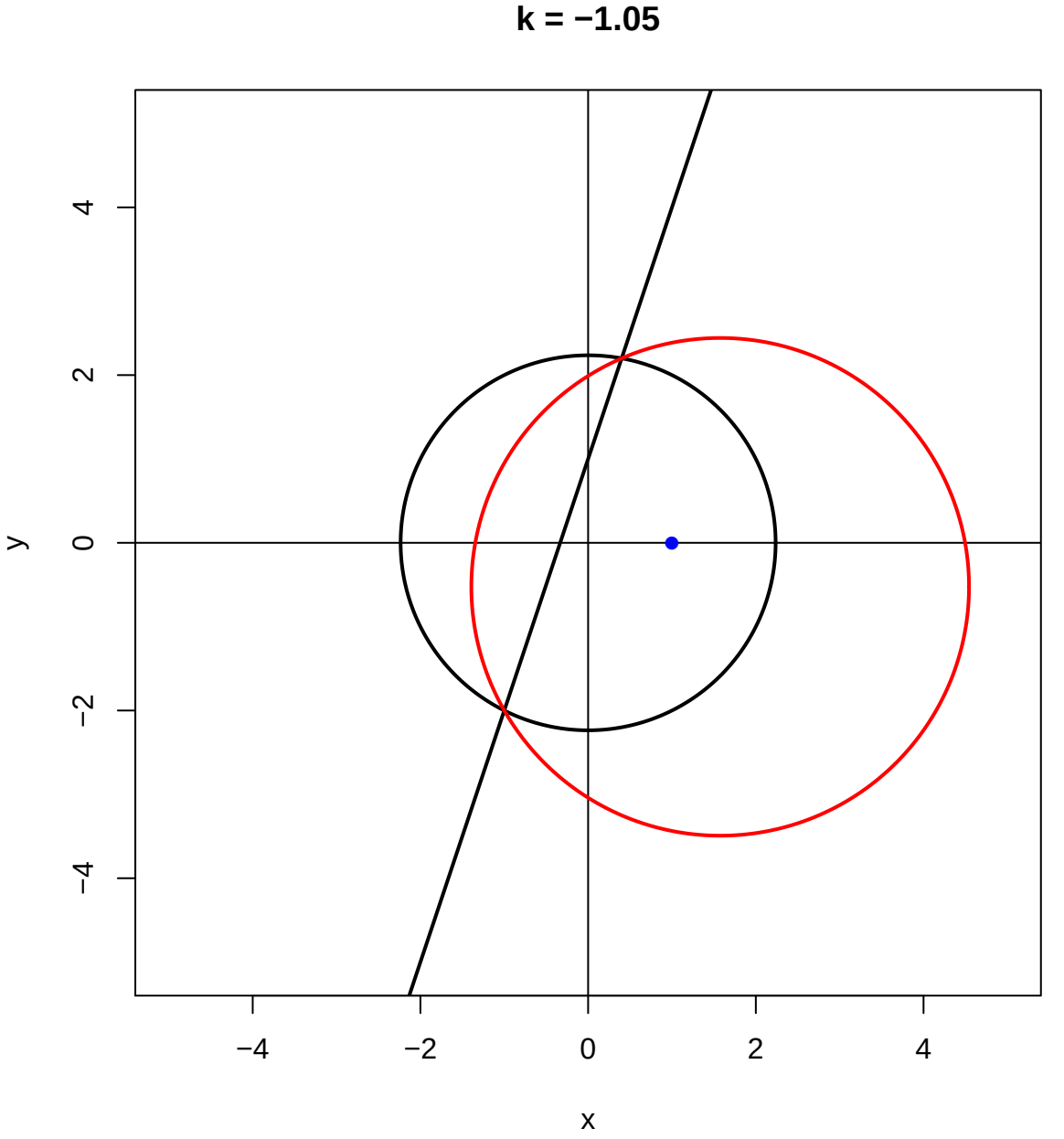
k = −1.05
y
x
4
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−4
−2
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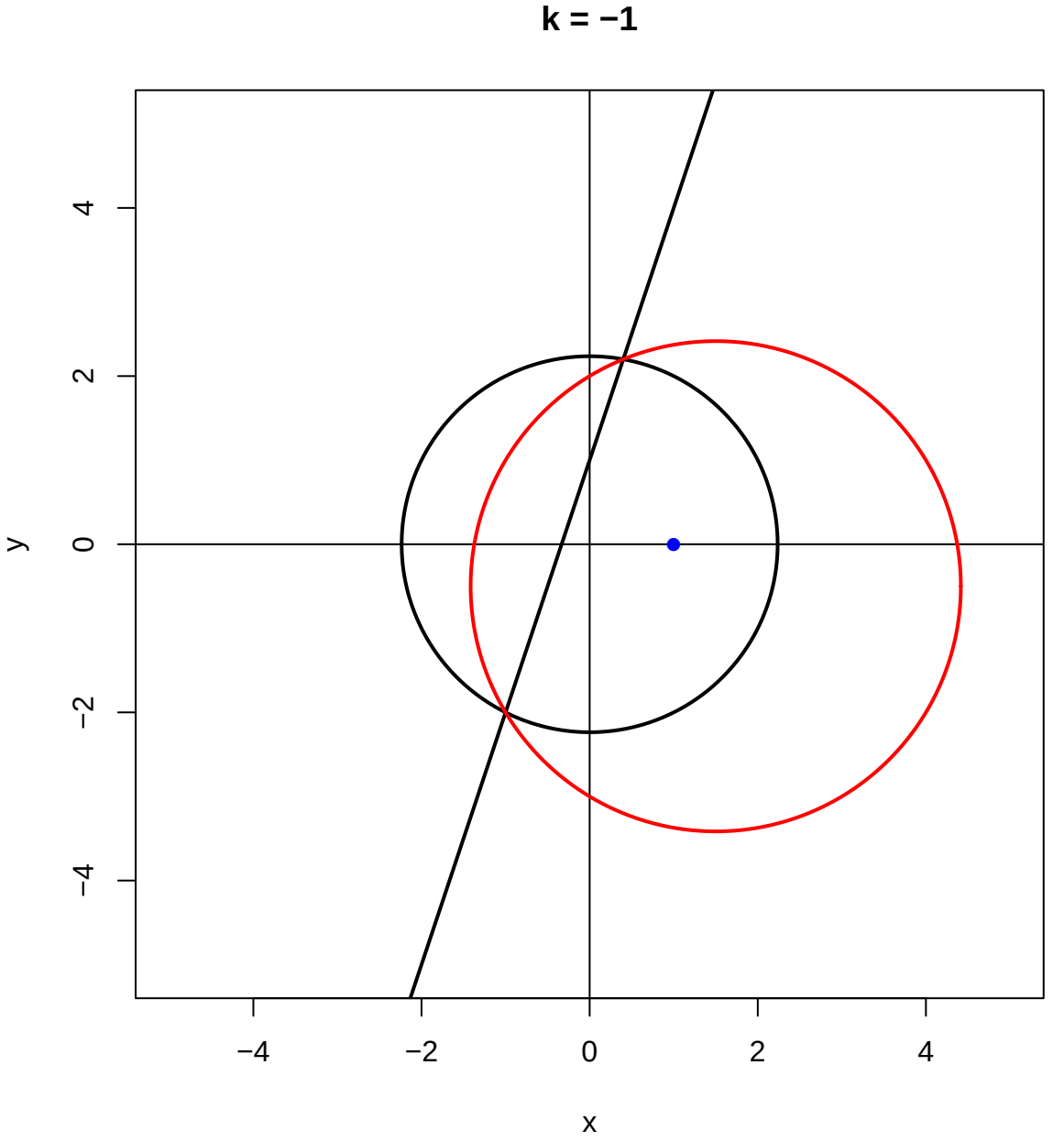
2
4


k = −1
y
x
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2
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−2
−4
−4
−2
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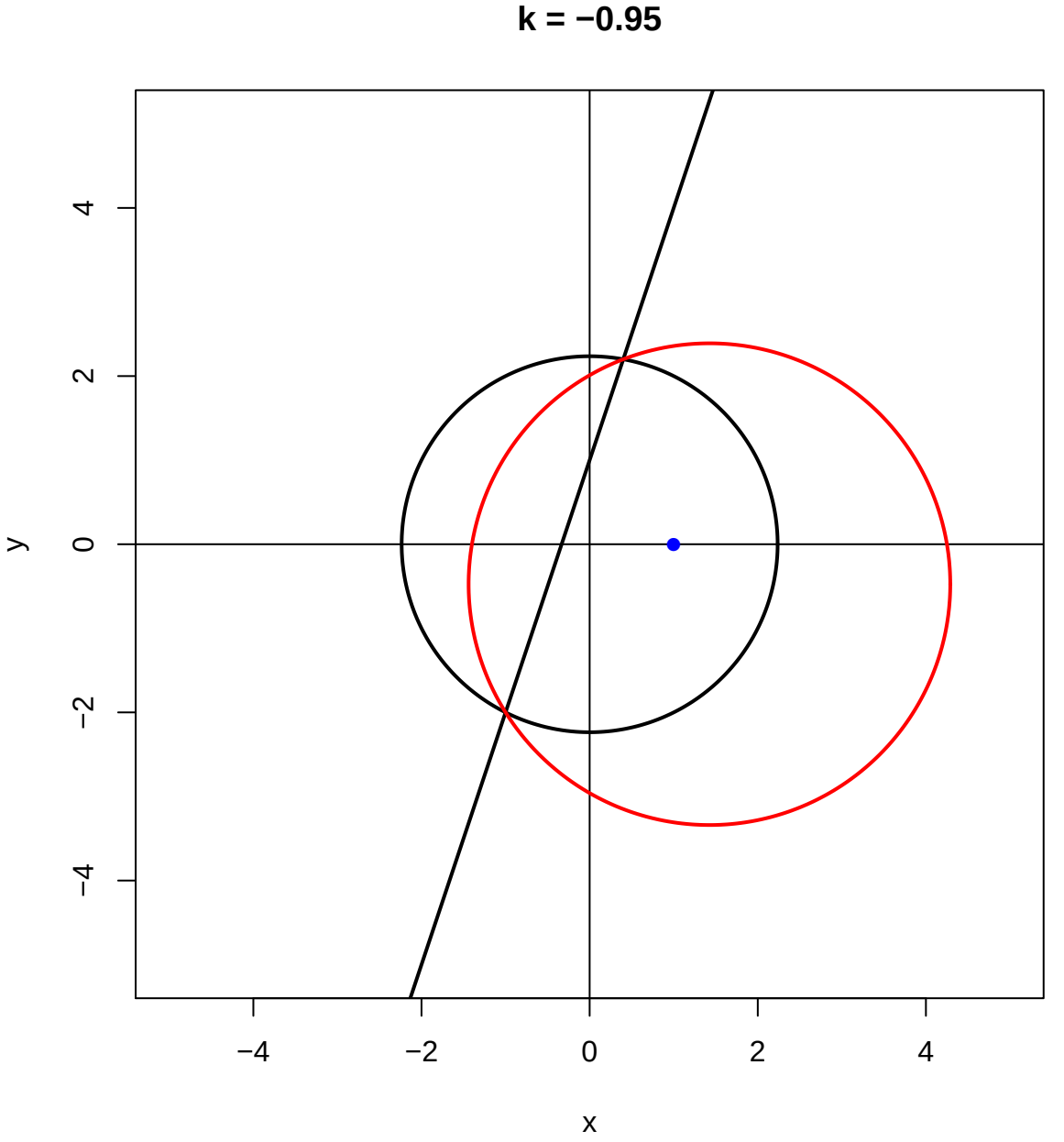
2
4


k = −0.95
y
x
4
2
0
−2
−4
−4
−2
0
2
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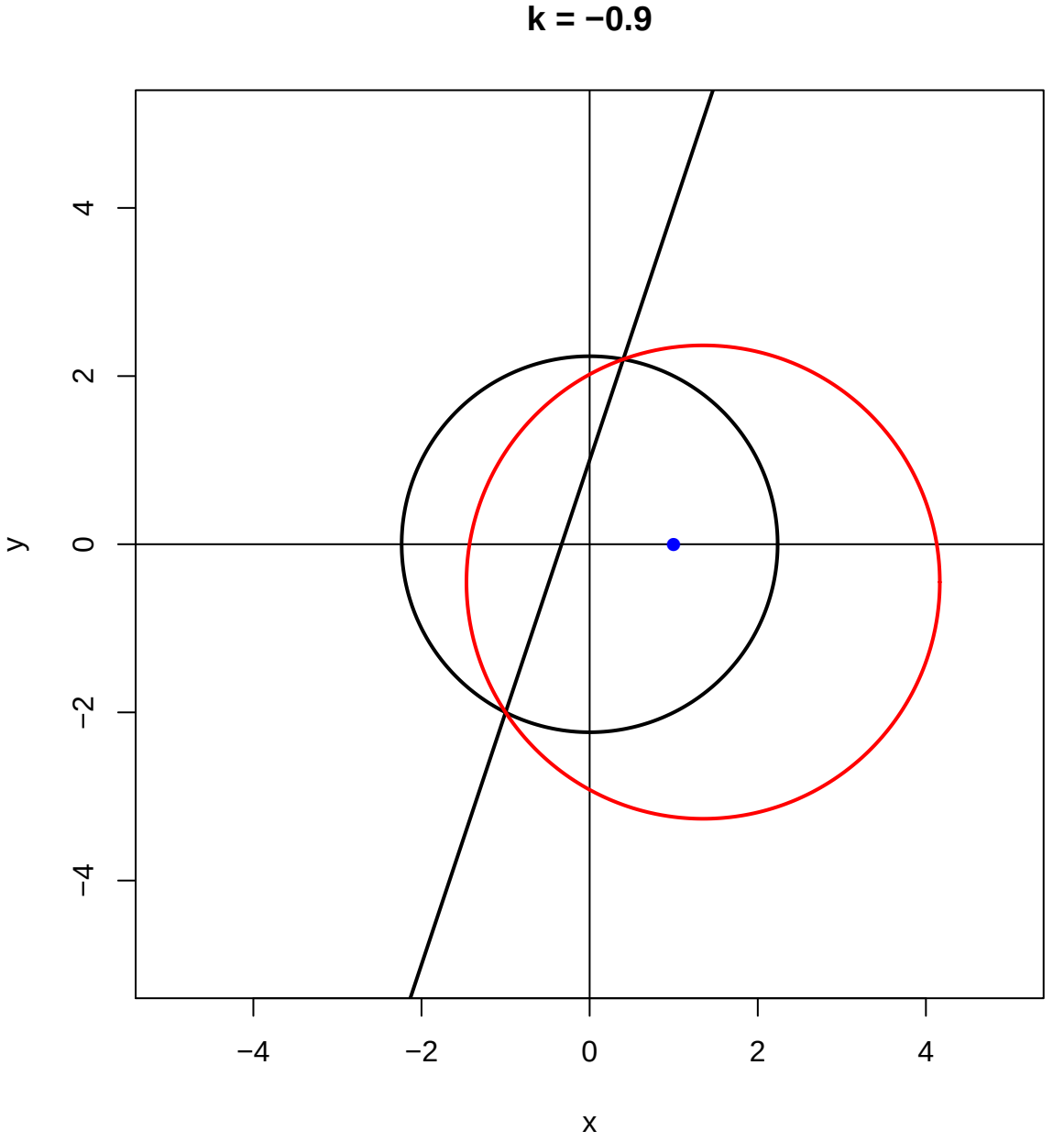
k = −0.9
y
x
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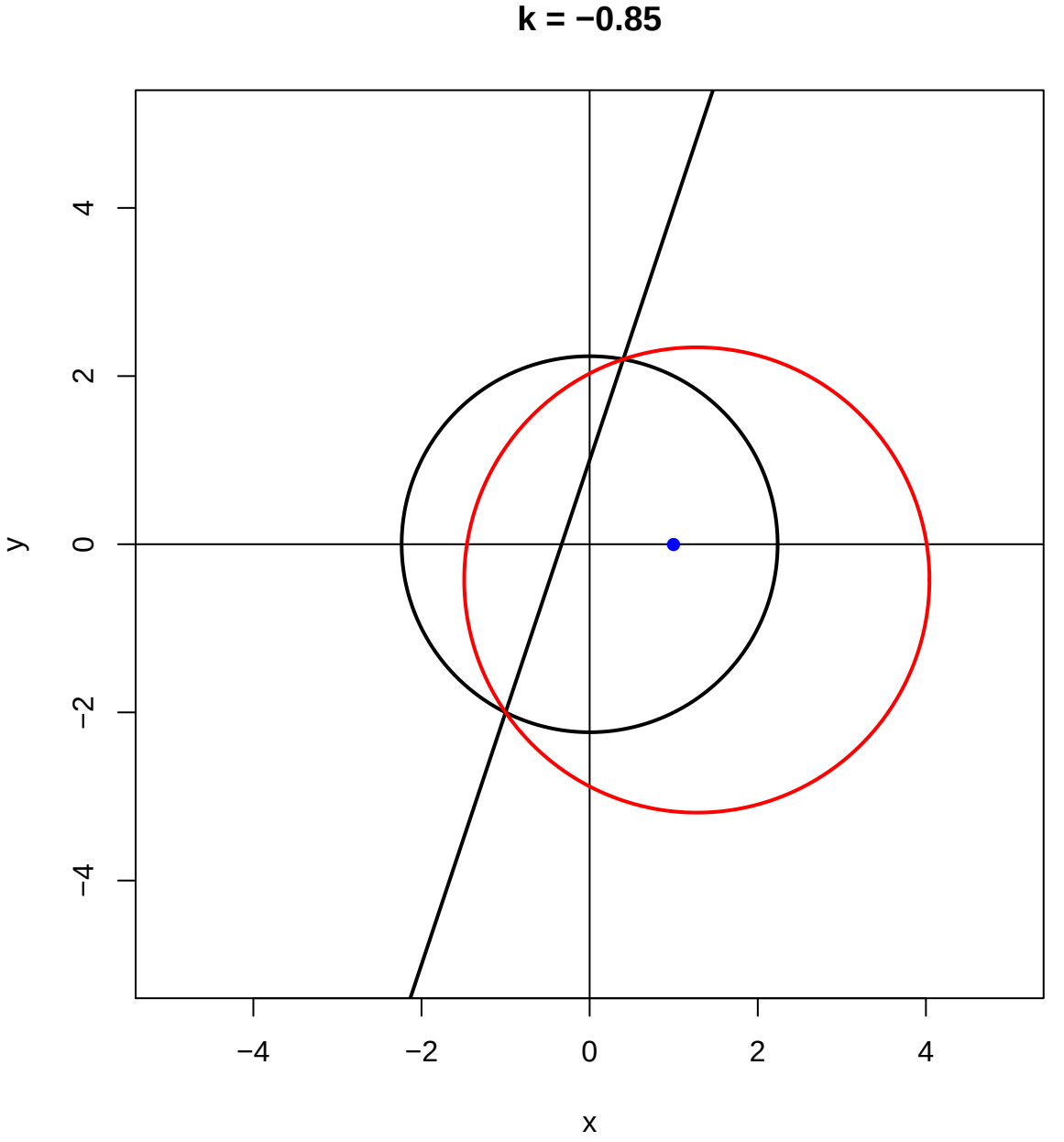
2
0
−2
−4
−4
−2
0
2
4


k = −0.85
y
x
4
2
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−2
−4
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−2
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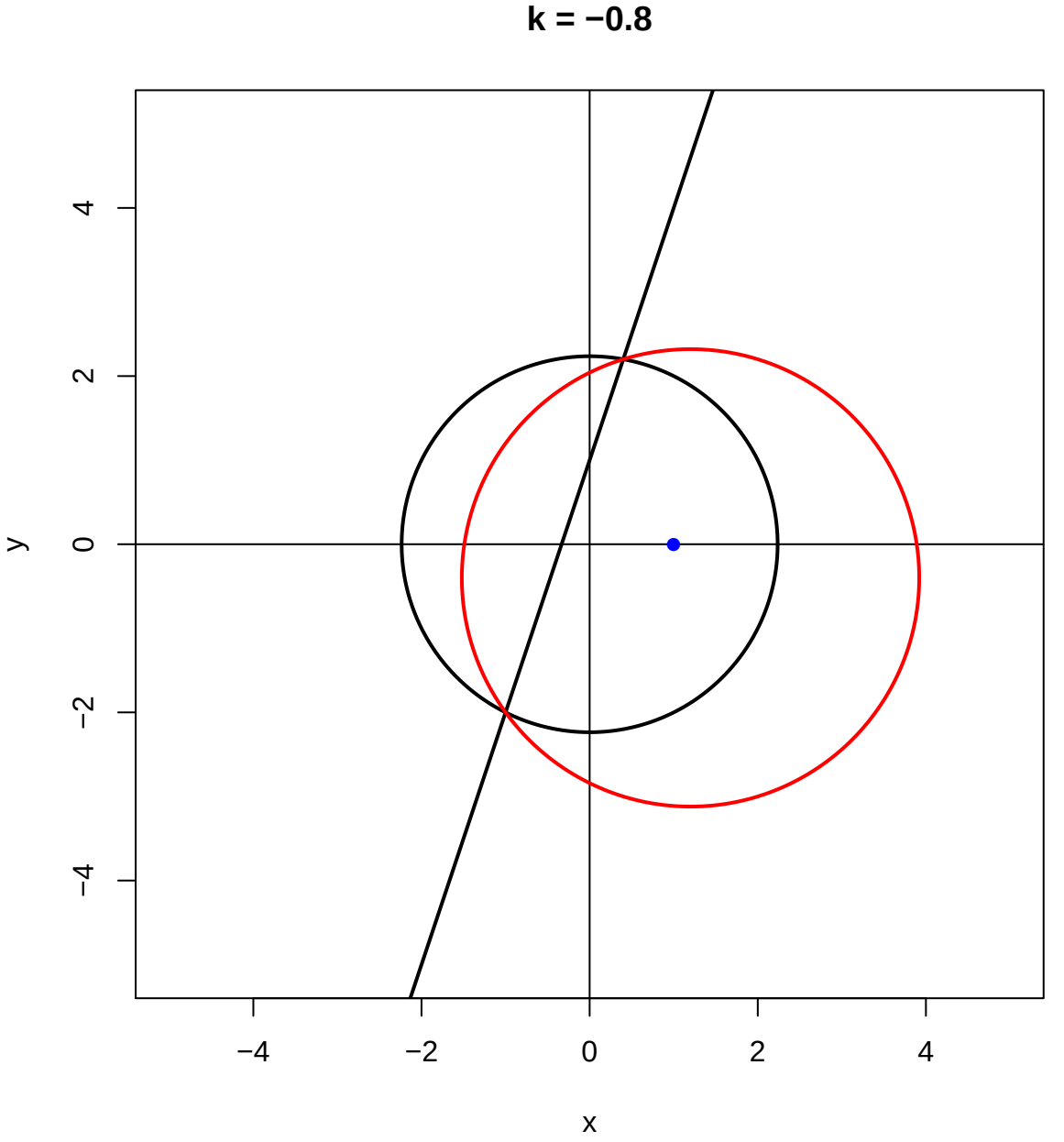
2
4


k = −0.8
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x
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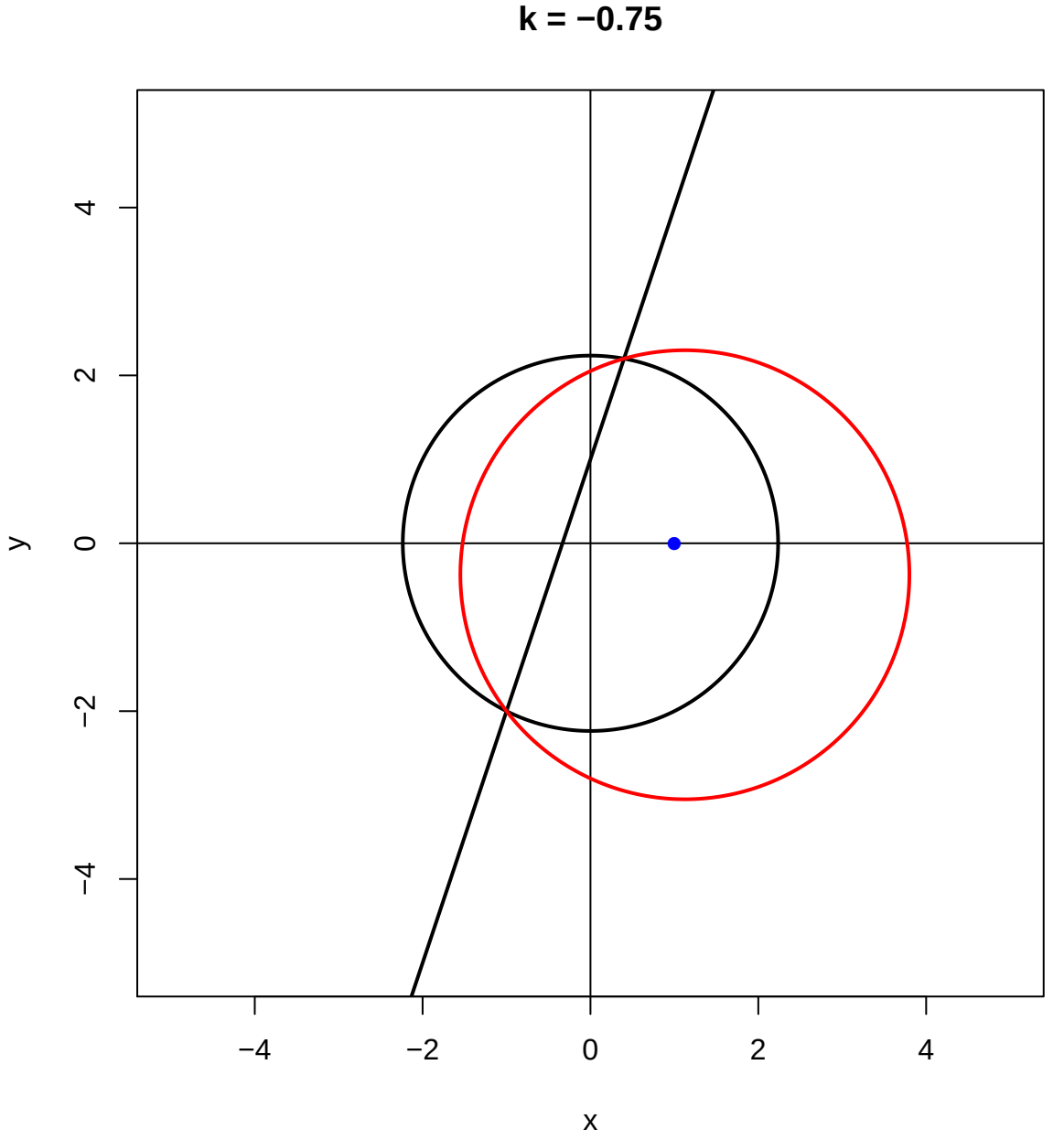
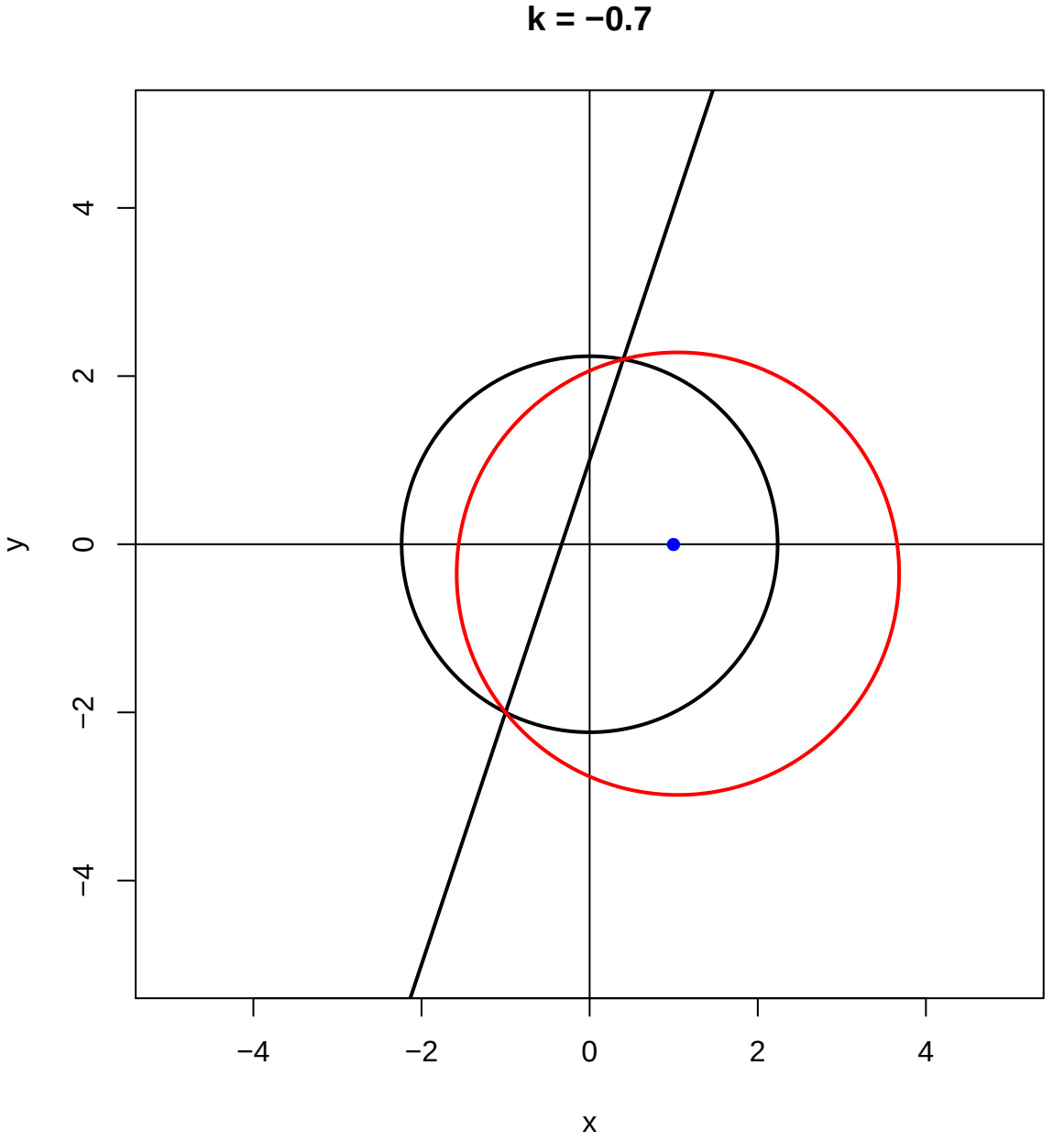
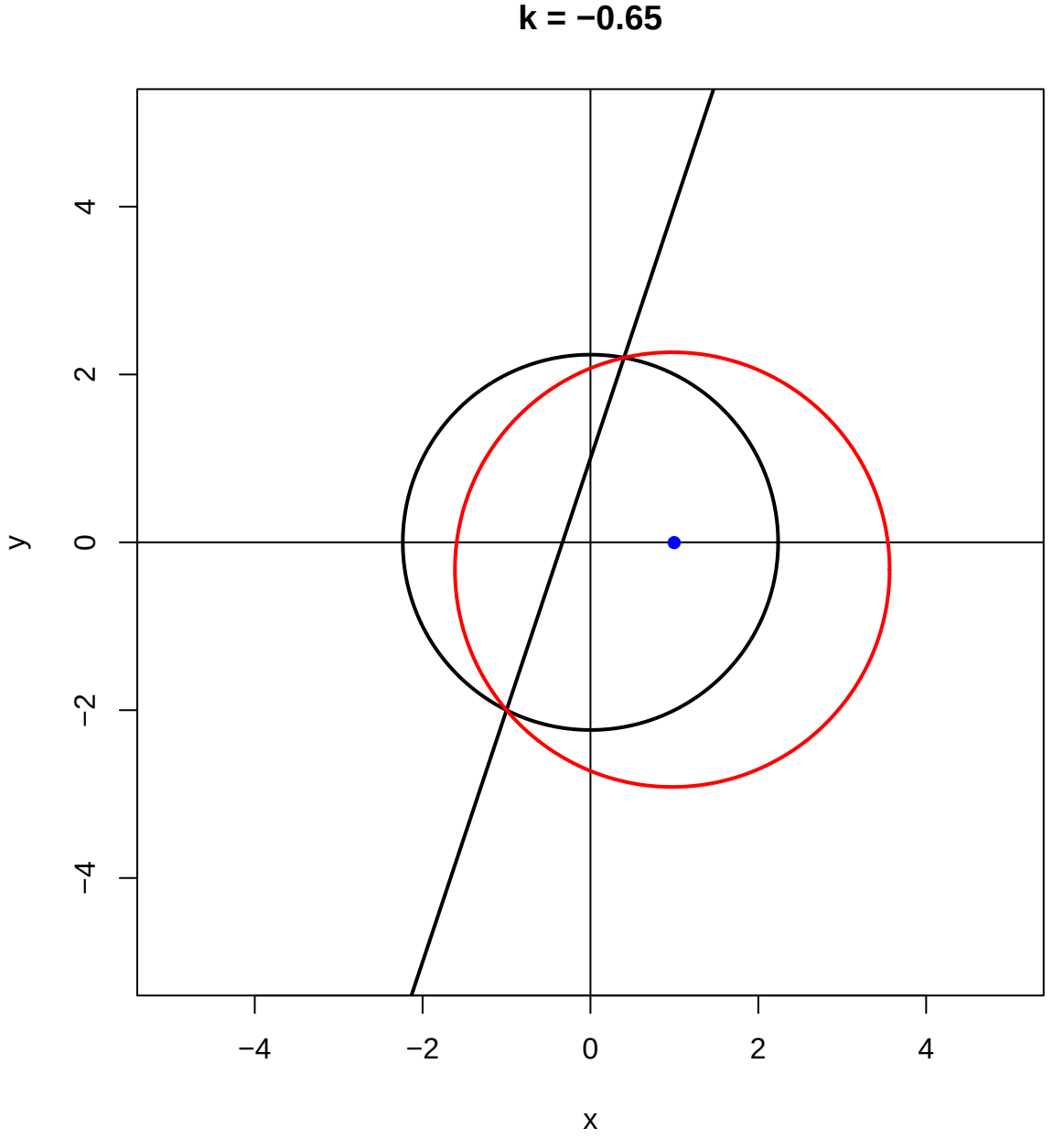
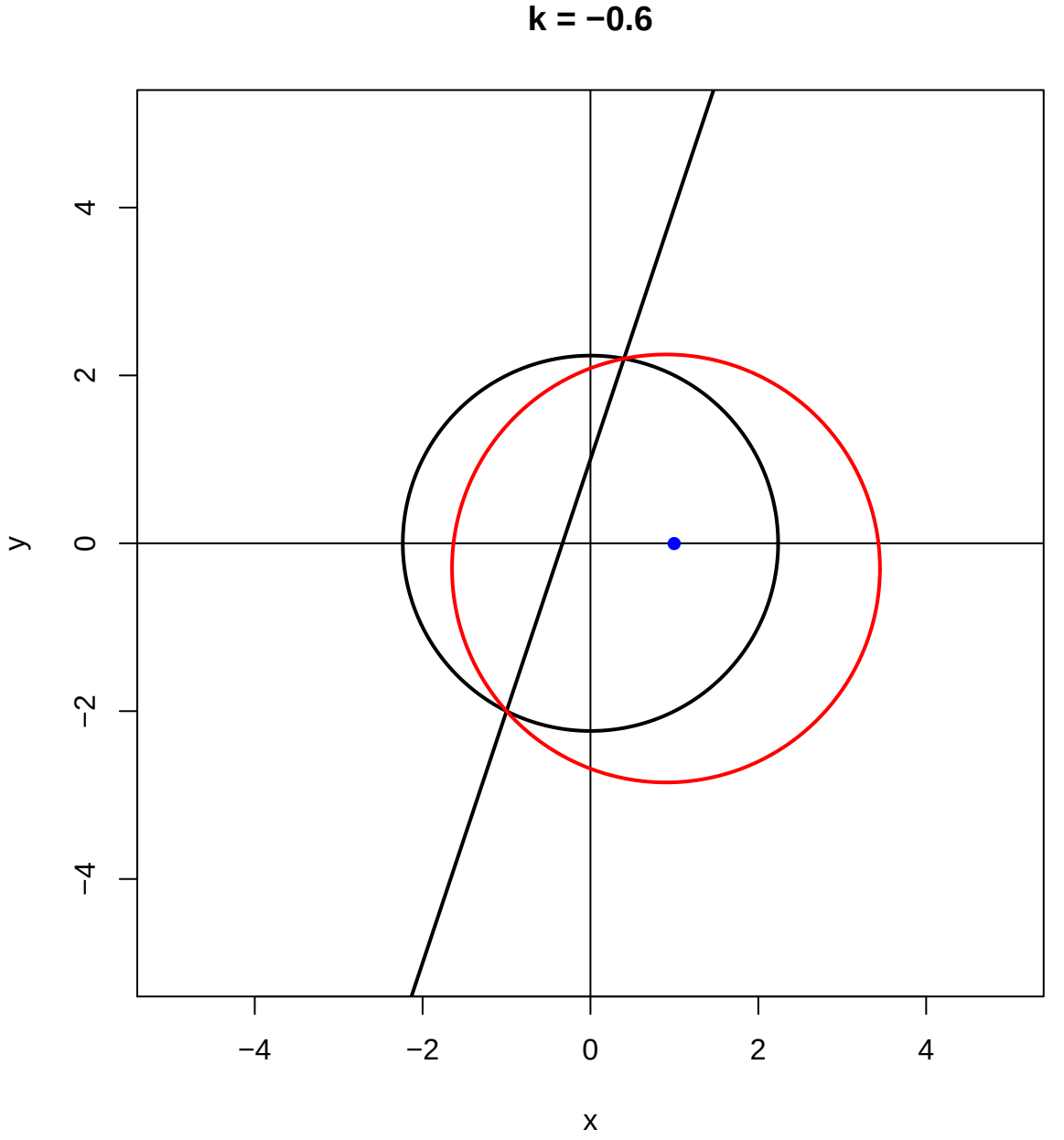
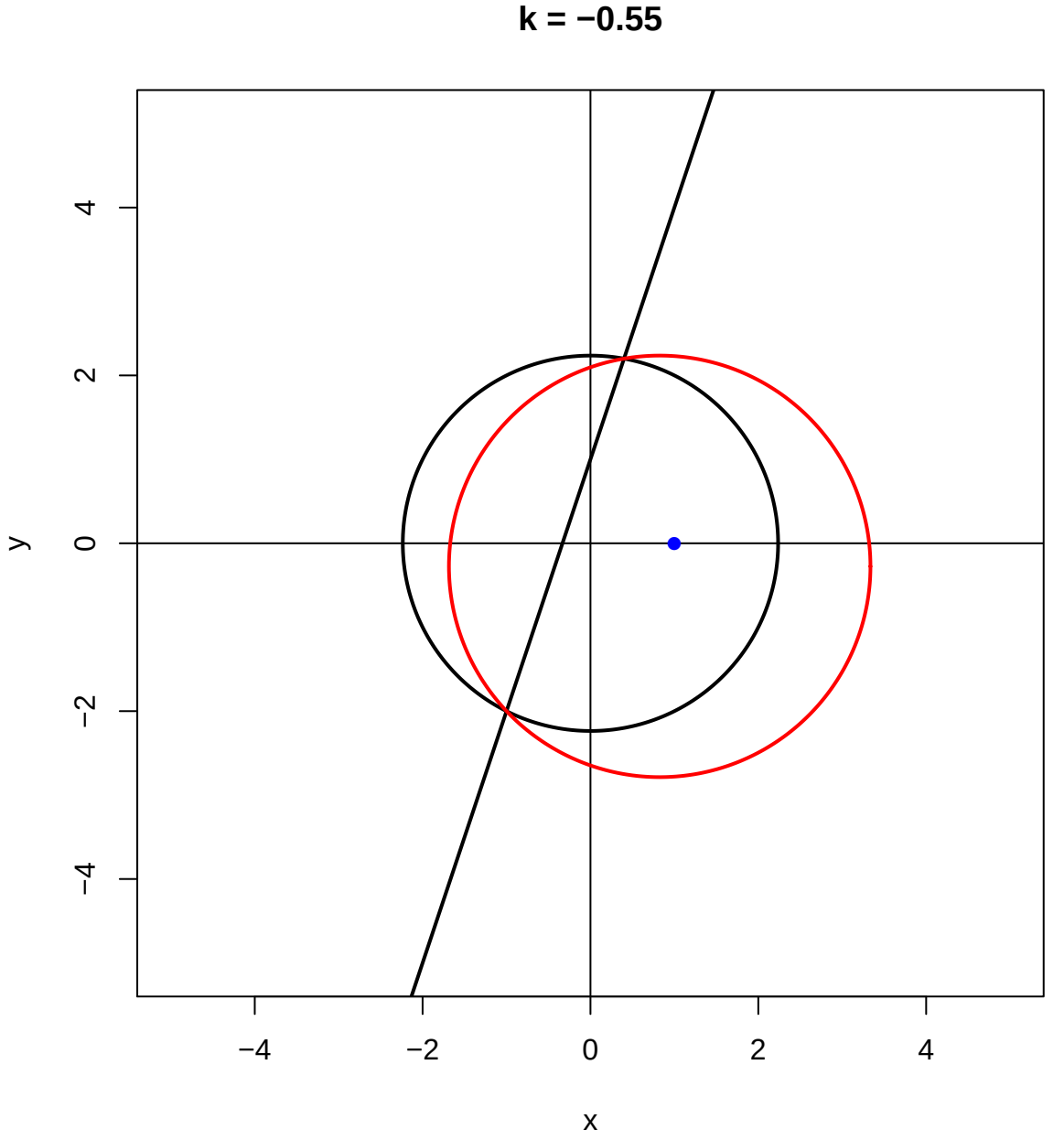
−2
0
2
4

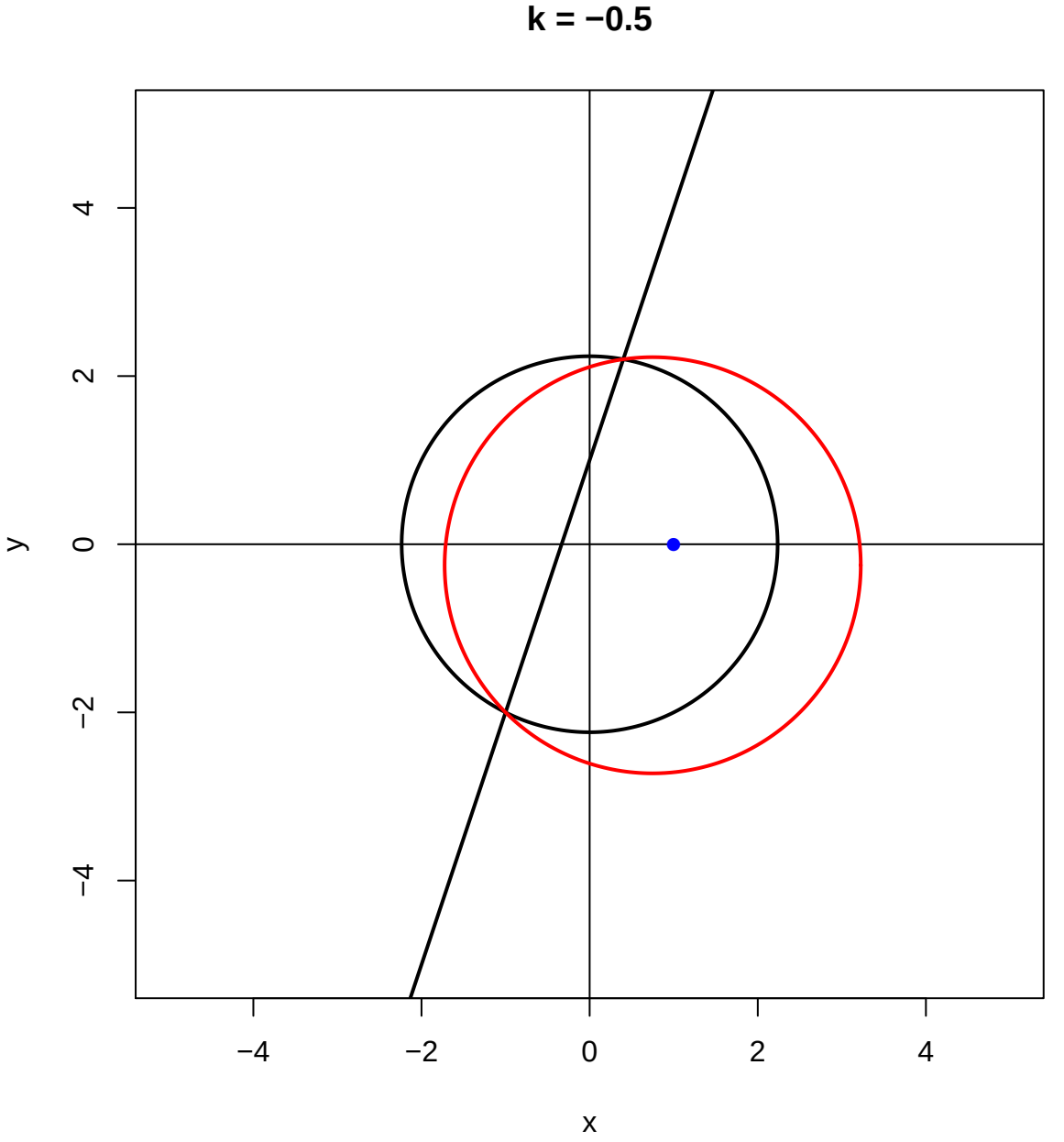

k = −0.75
y
x
4
2
0
−2
−4
−4
−2
0
2
4

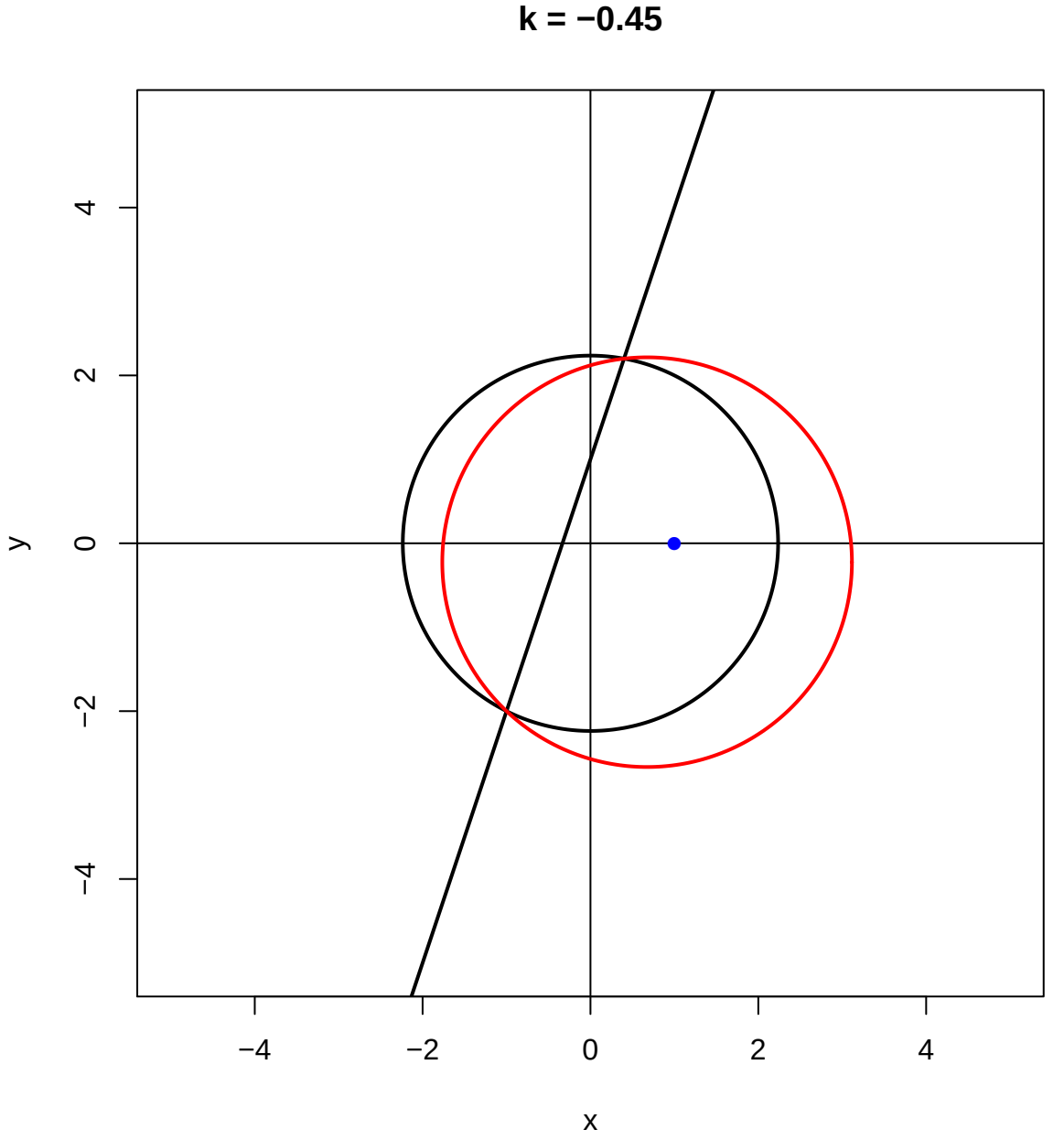

k = −0.7
y
x
4
2
0
−2
−4
−4
−2
0
2
4

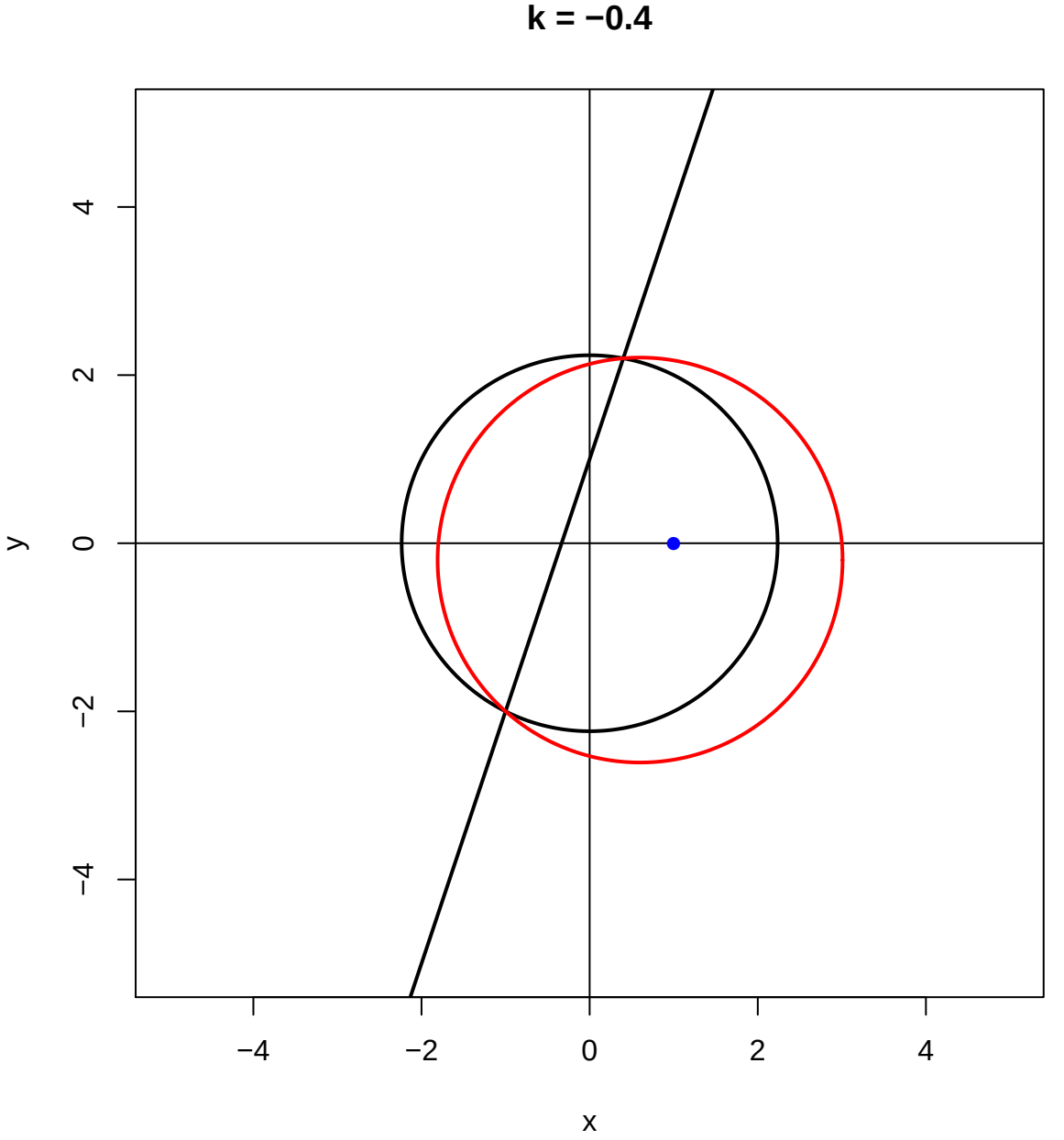

k = −0.65
y
x
4
2
0
−2
−4
−4
−2
0
2
4

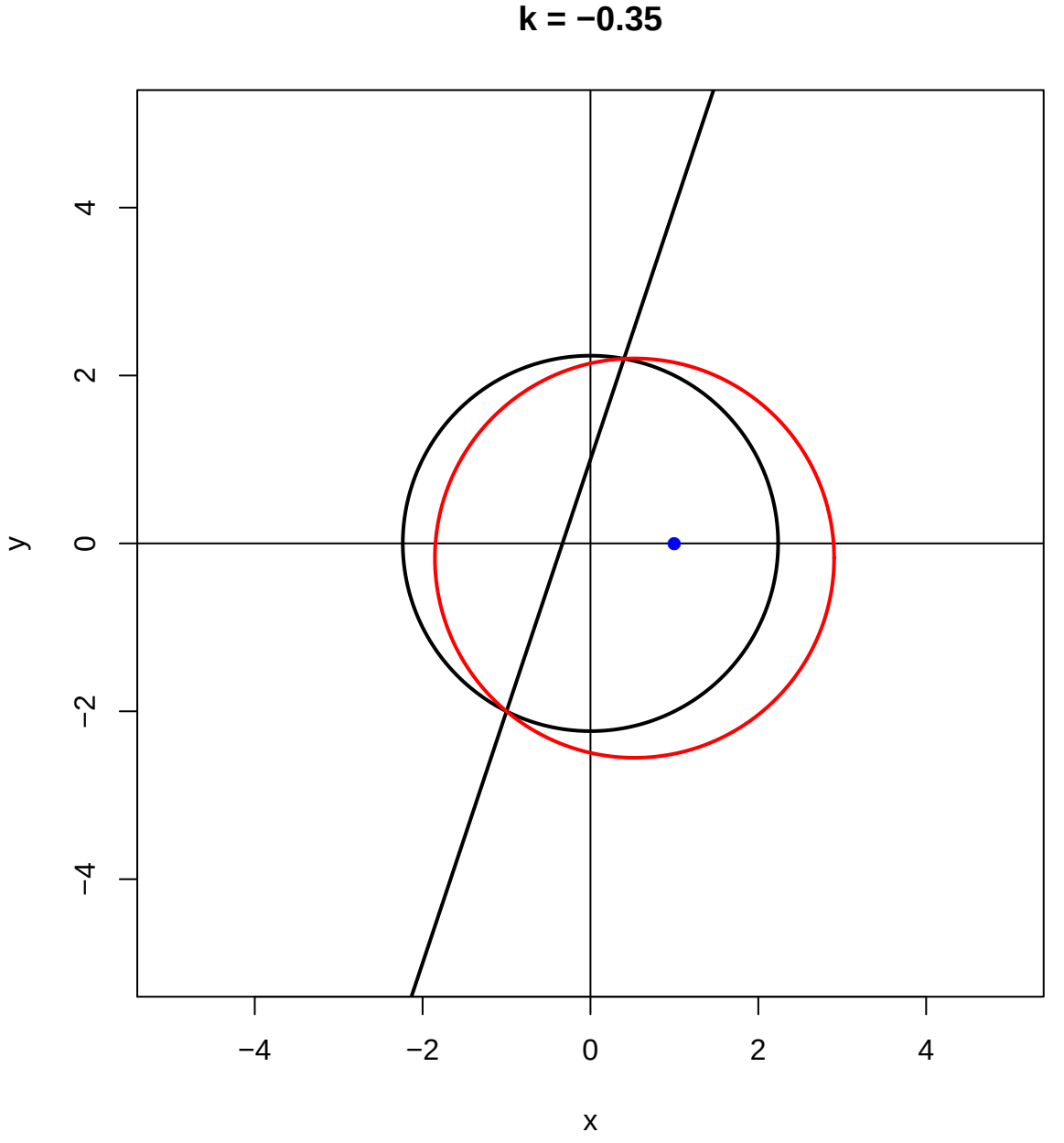

k = −0.6
y
x
4
2
0
−2
−4
−4
−2
0
2
4

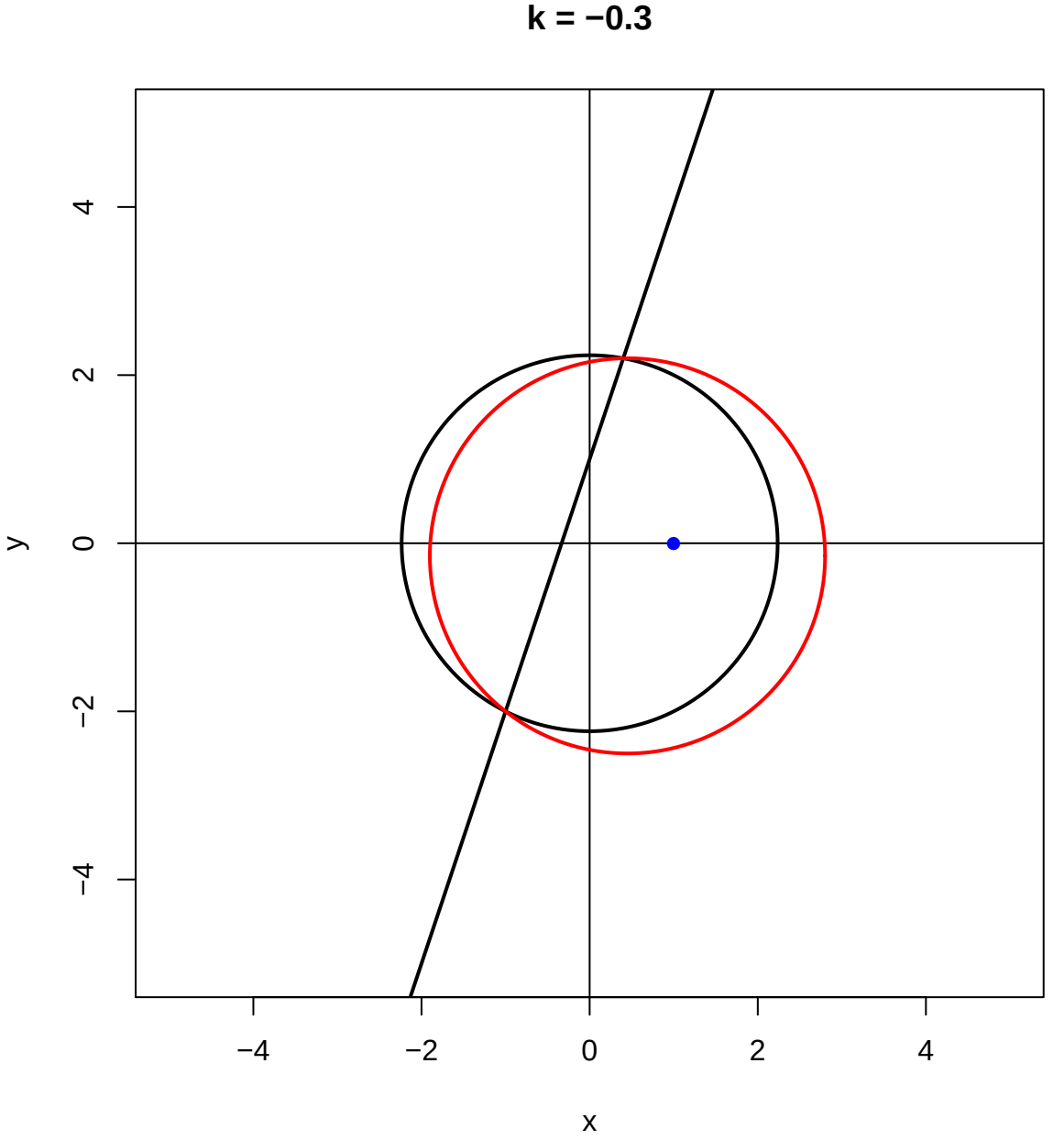

k = −0.55
y
x
4
2
0
−2
−4
−4
−2
0
2
4

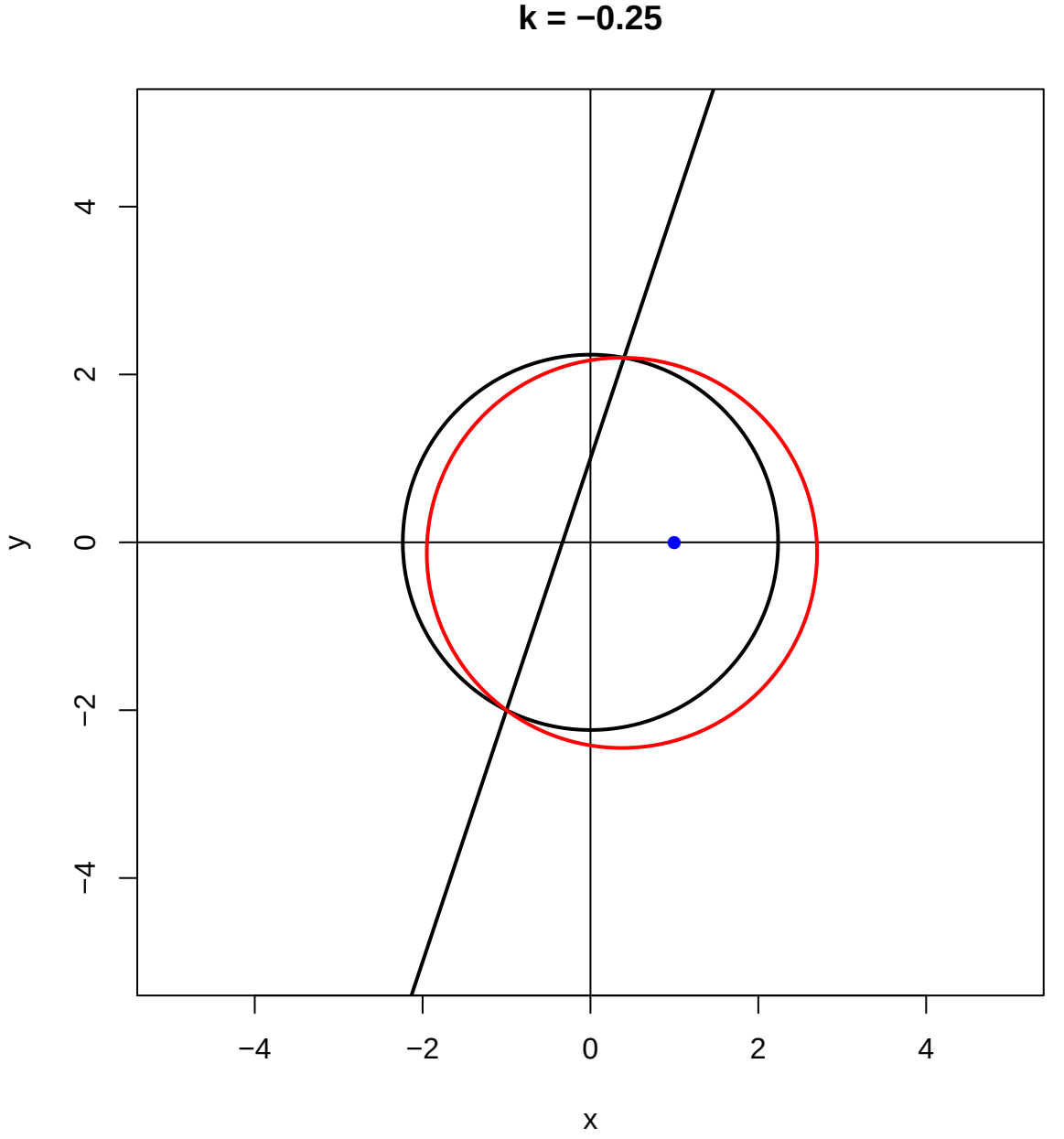

k = −0.5
y
x
4
2
0
−2
−4
−4
−2
0
2
4

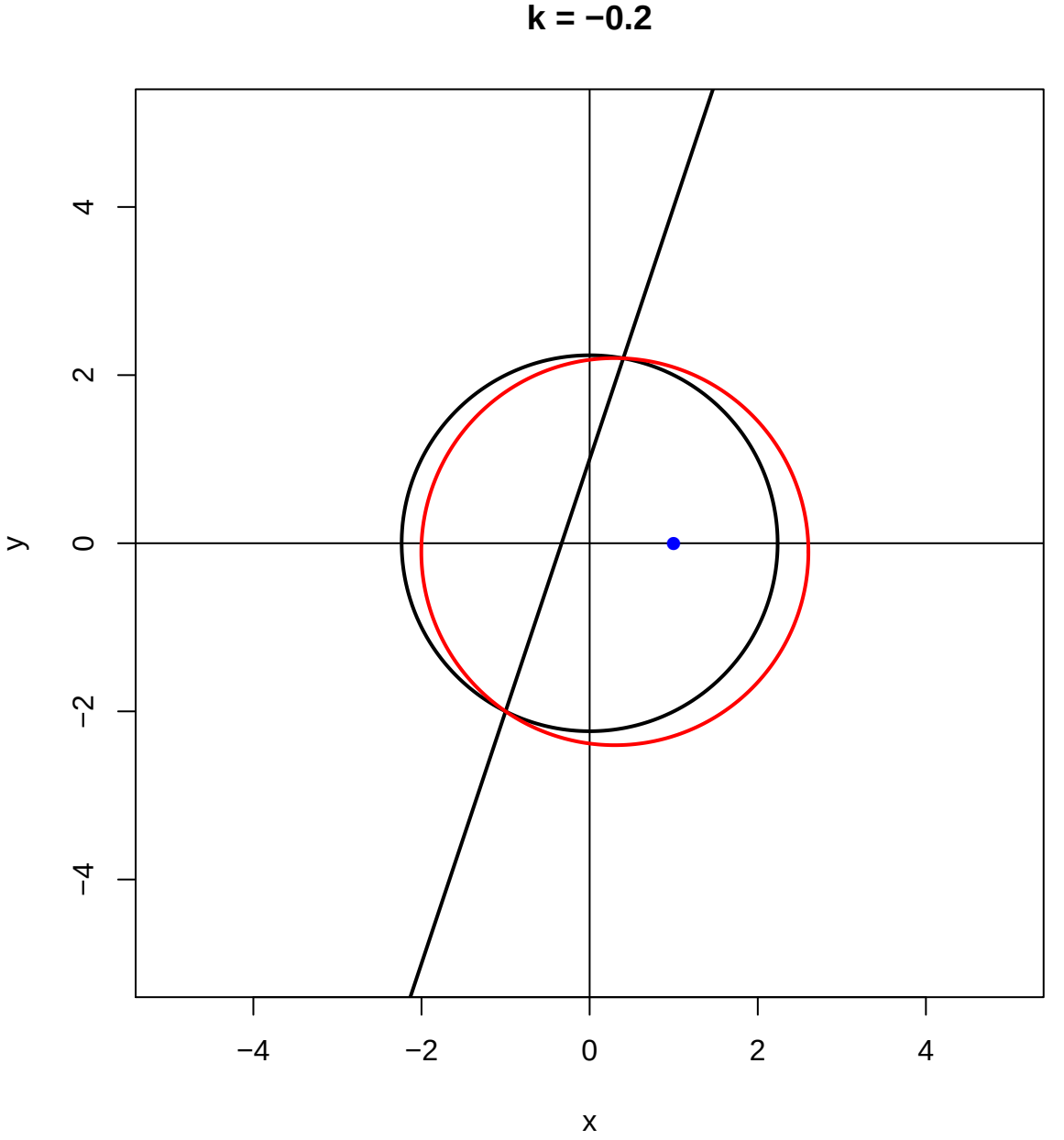

k = −0.45
y
x
4
2
0
−2
−4
−4
−2
0
2
4

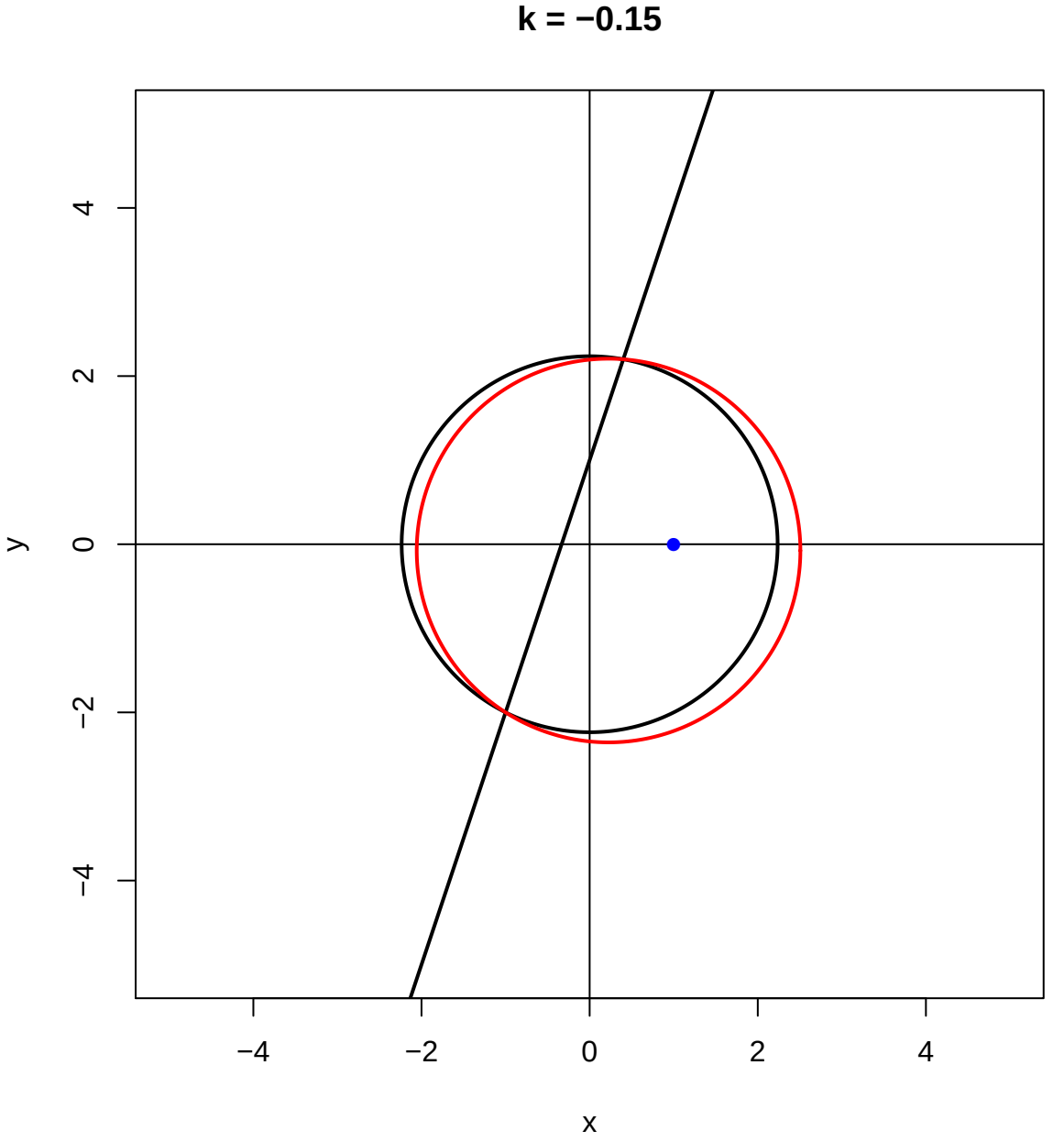

k = −0.4
y
x
4
2
0
−2
−4
−4
−2
0
2
4

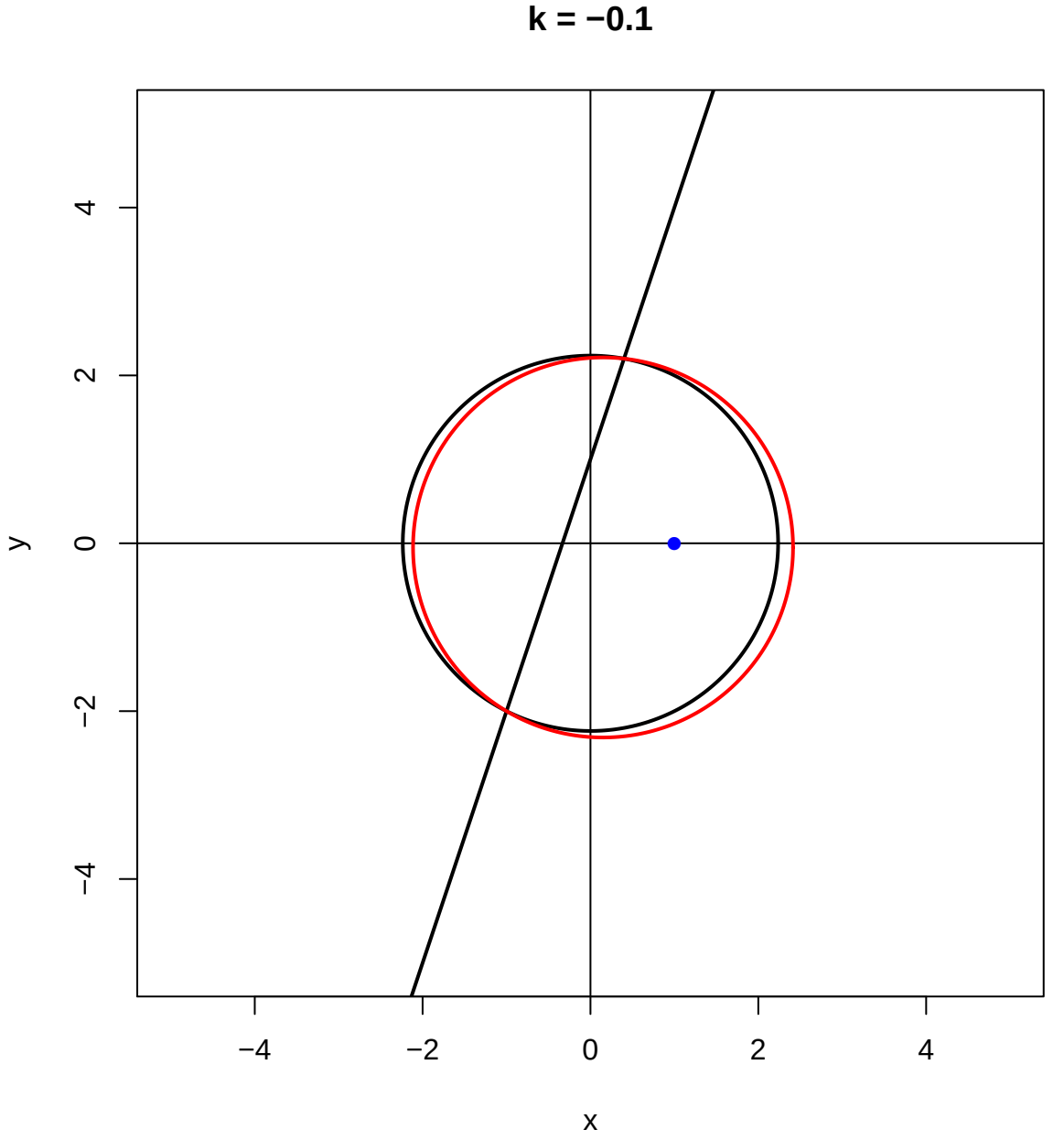

k = −0.35
y
x
4
2
0
−2
−4
−4
−2
0
2
4

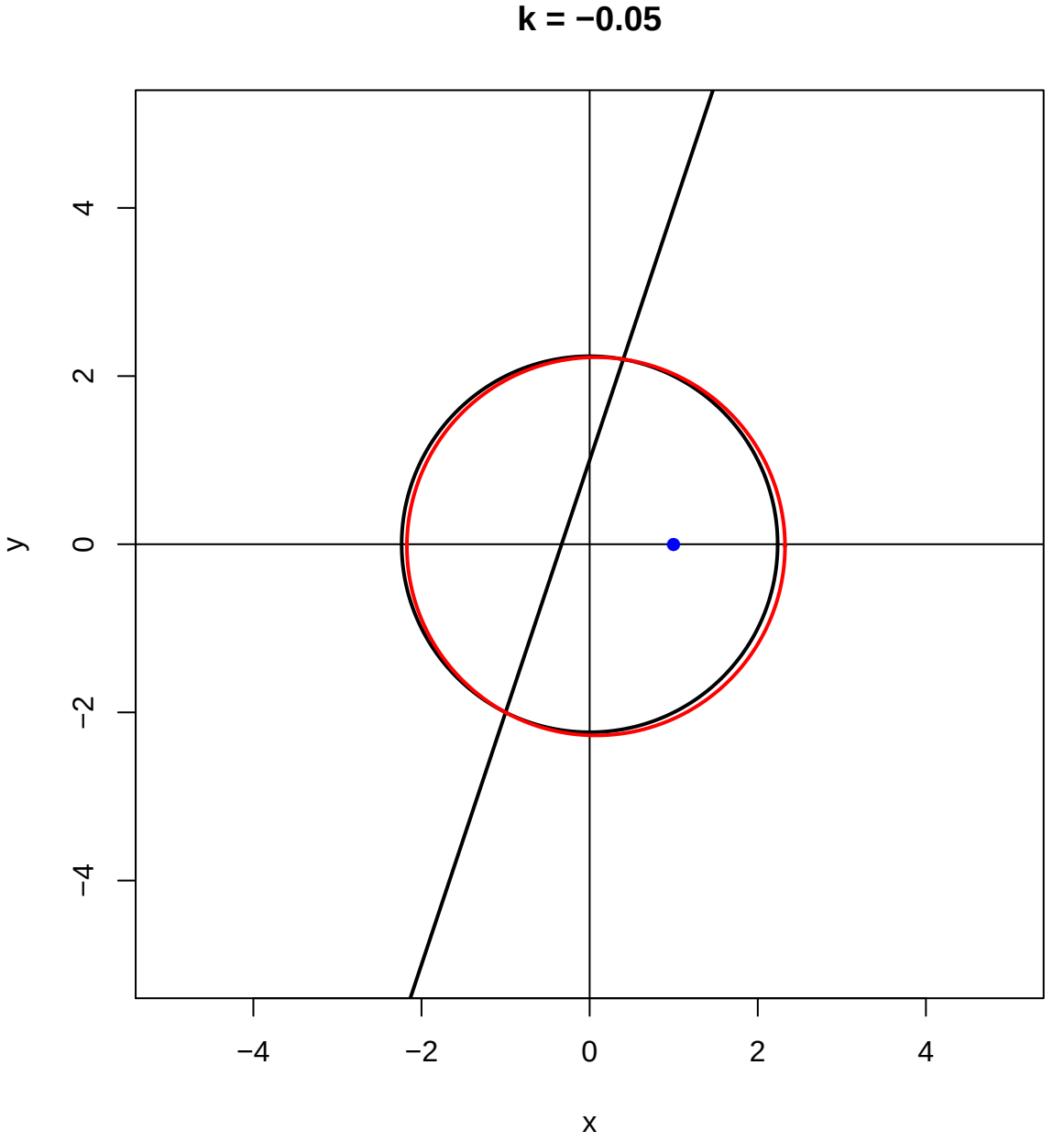

k = −0.3
y
x
4
2
0
−2
−4
−4
−2
0
2
4

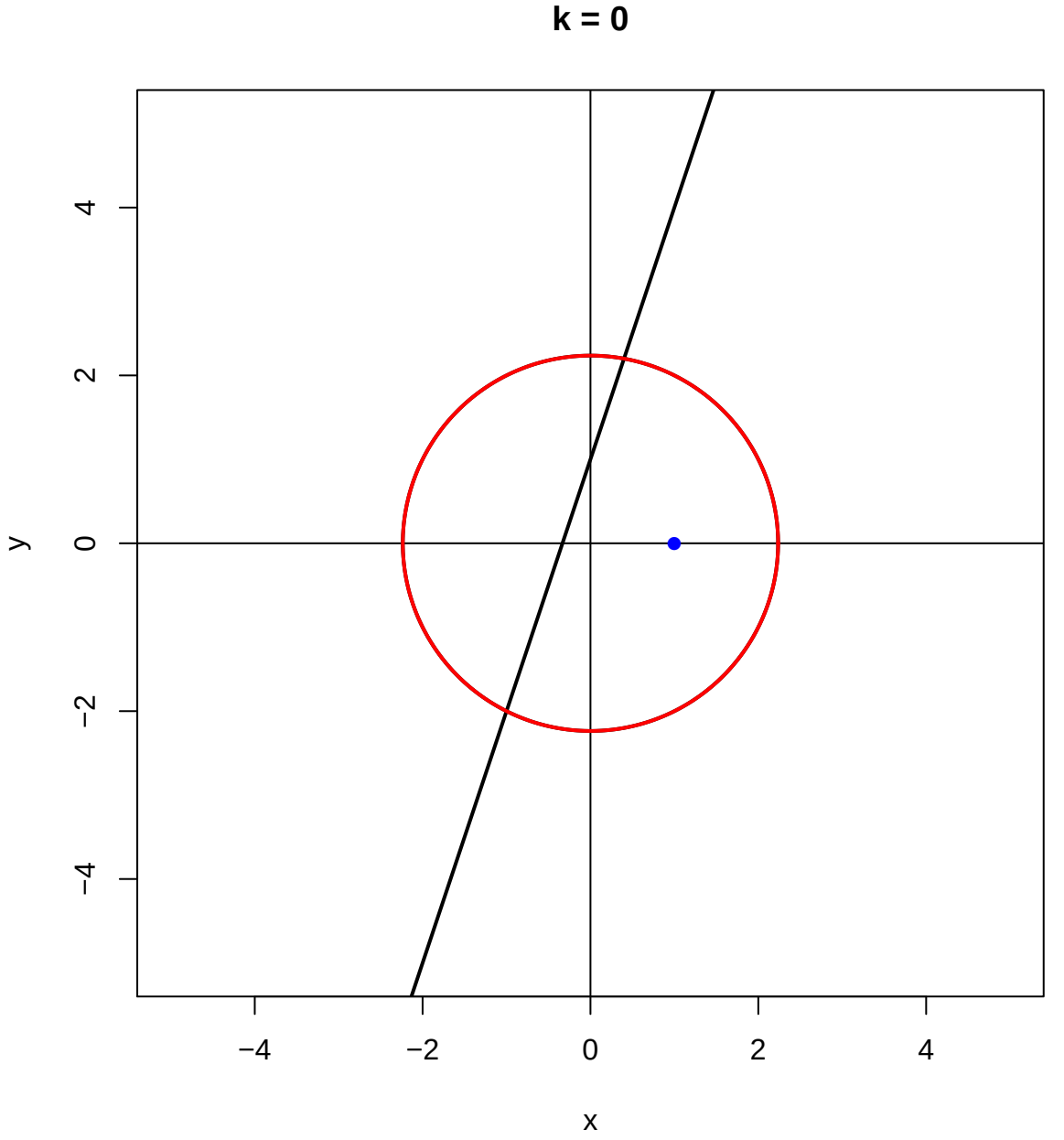

k = −0.25
y
x
4
2
0
−2
−4
−4
−2
0
2
4

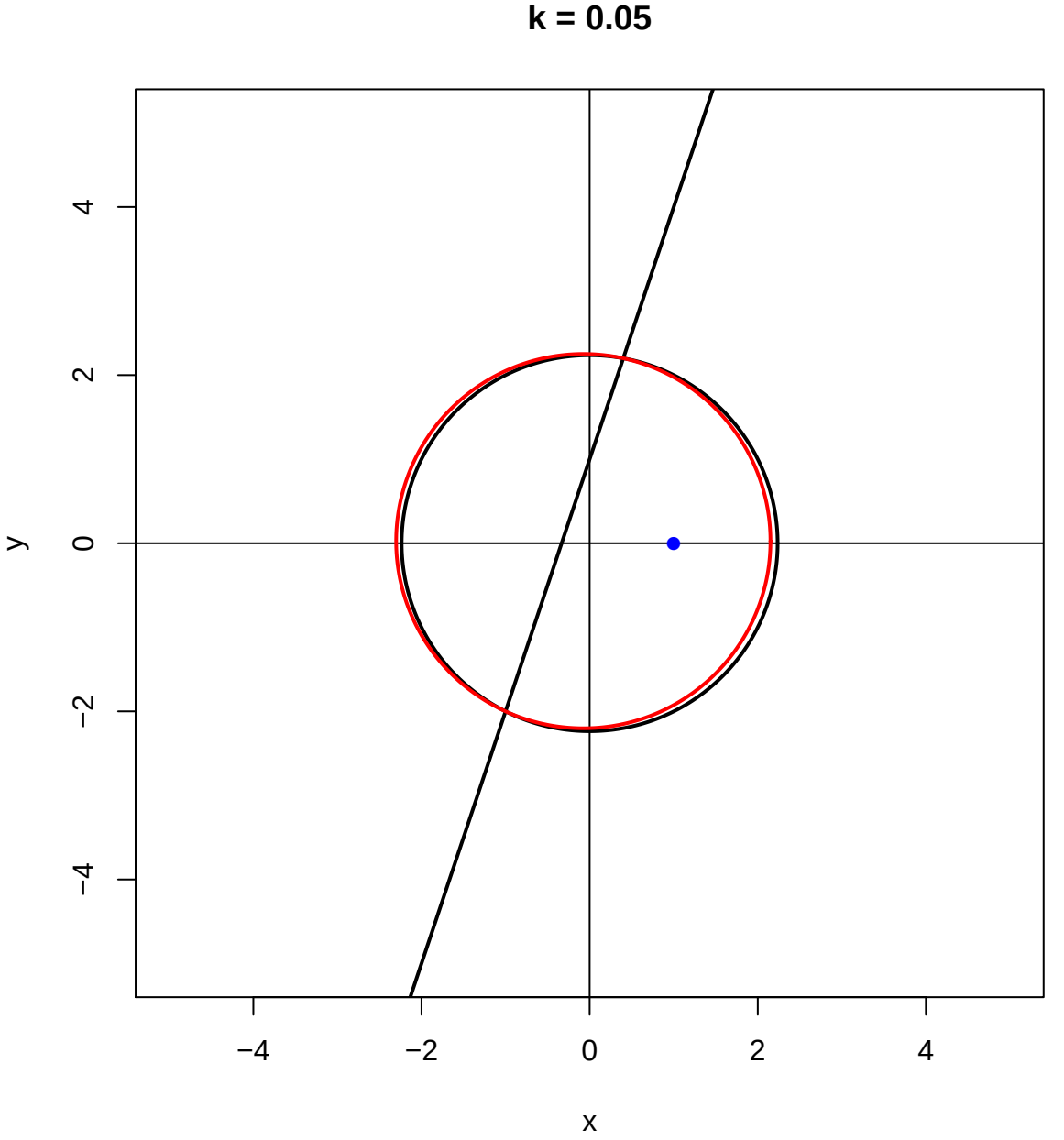

k = −0.2
y
x
4
2
0
−2
−4
−4
−2
0
2
4

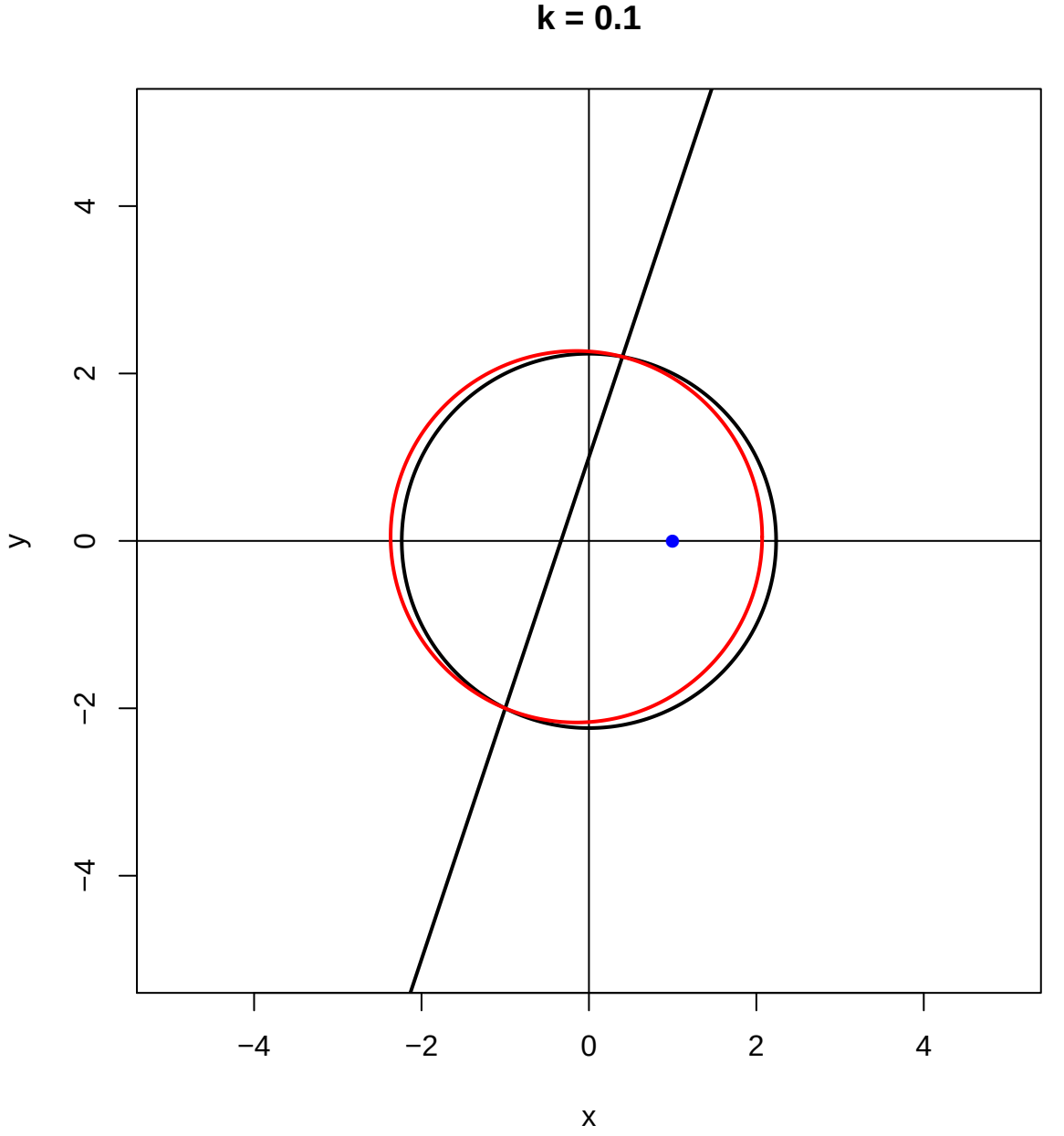

k = −0.15
y
x
4
2
0
−2
−4
−4
−2
0
2
4

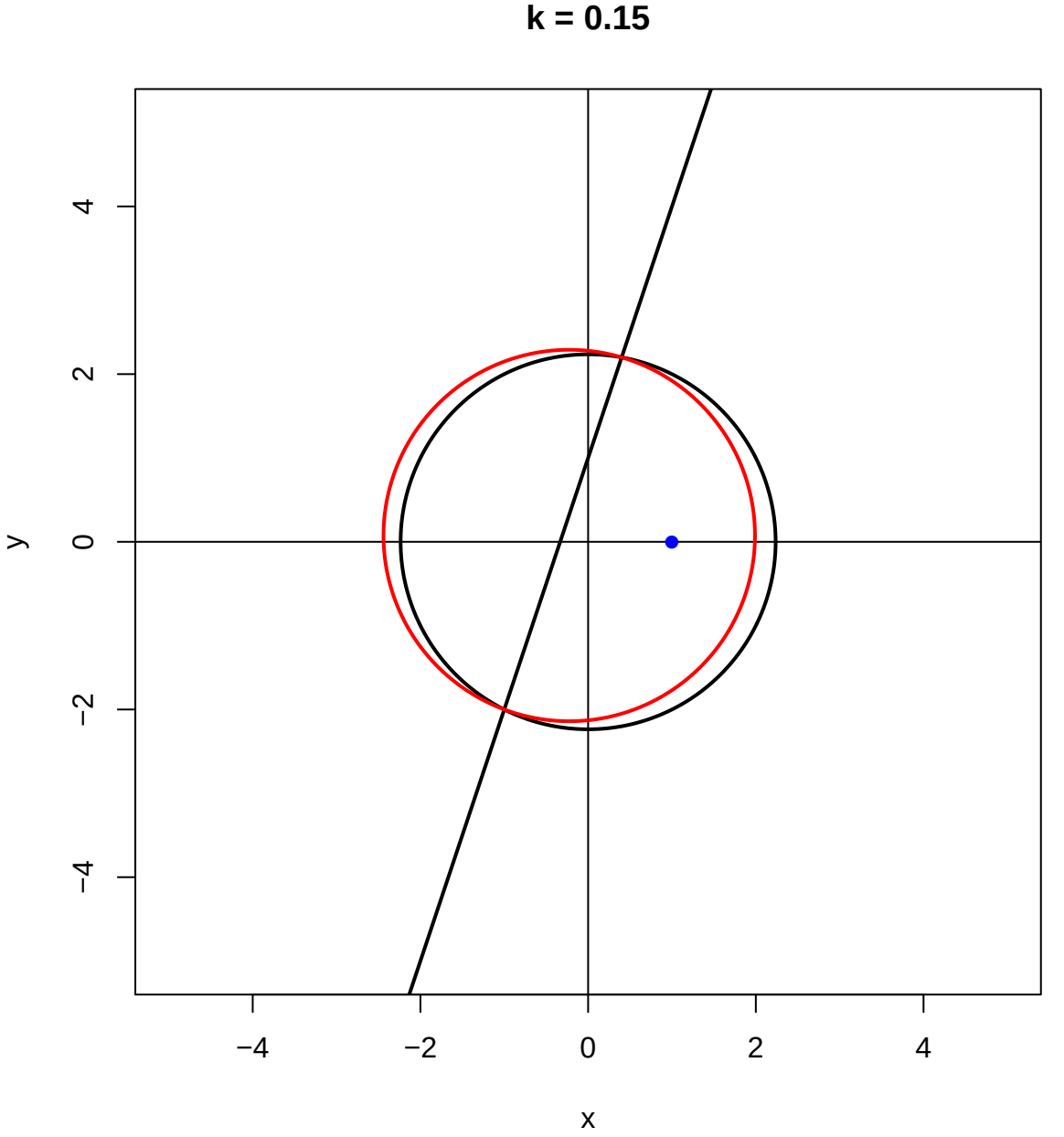

k = −0.1
y
x
4
2
0
−2
−4
−4
−2
0
2
4

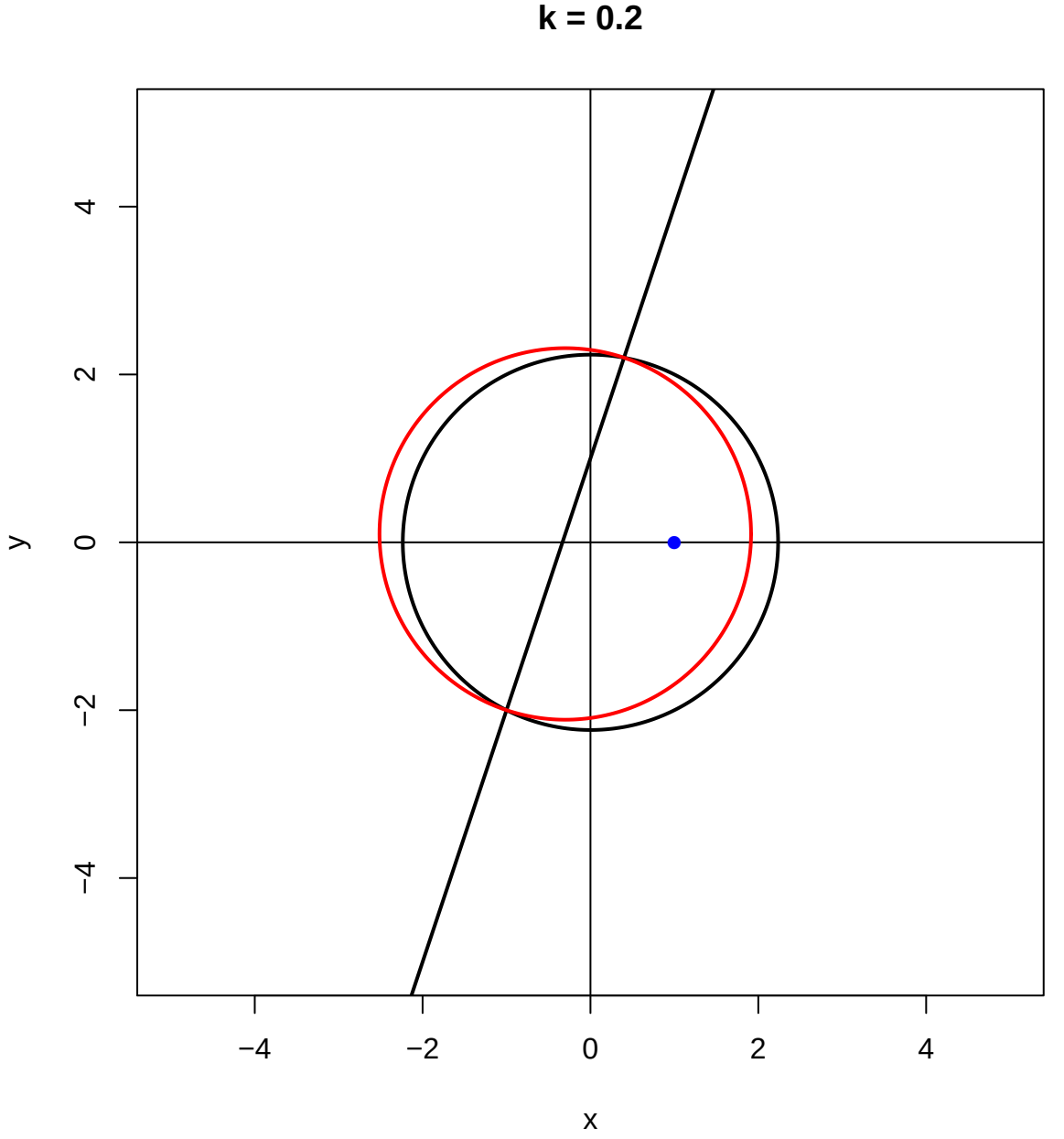

k = −0.05
y
x
4
2
0
−2
−4
−4
−2
0
2
4

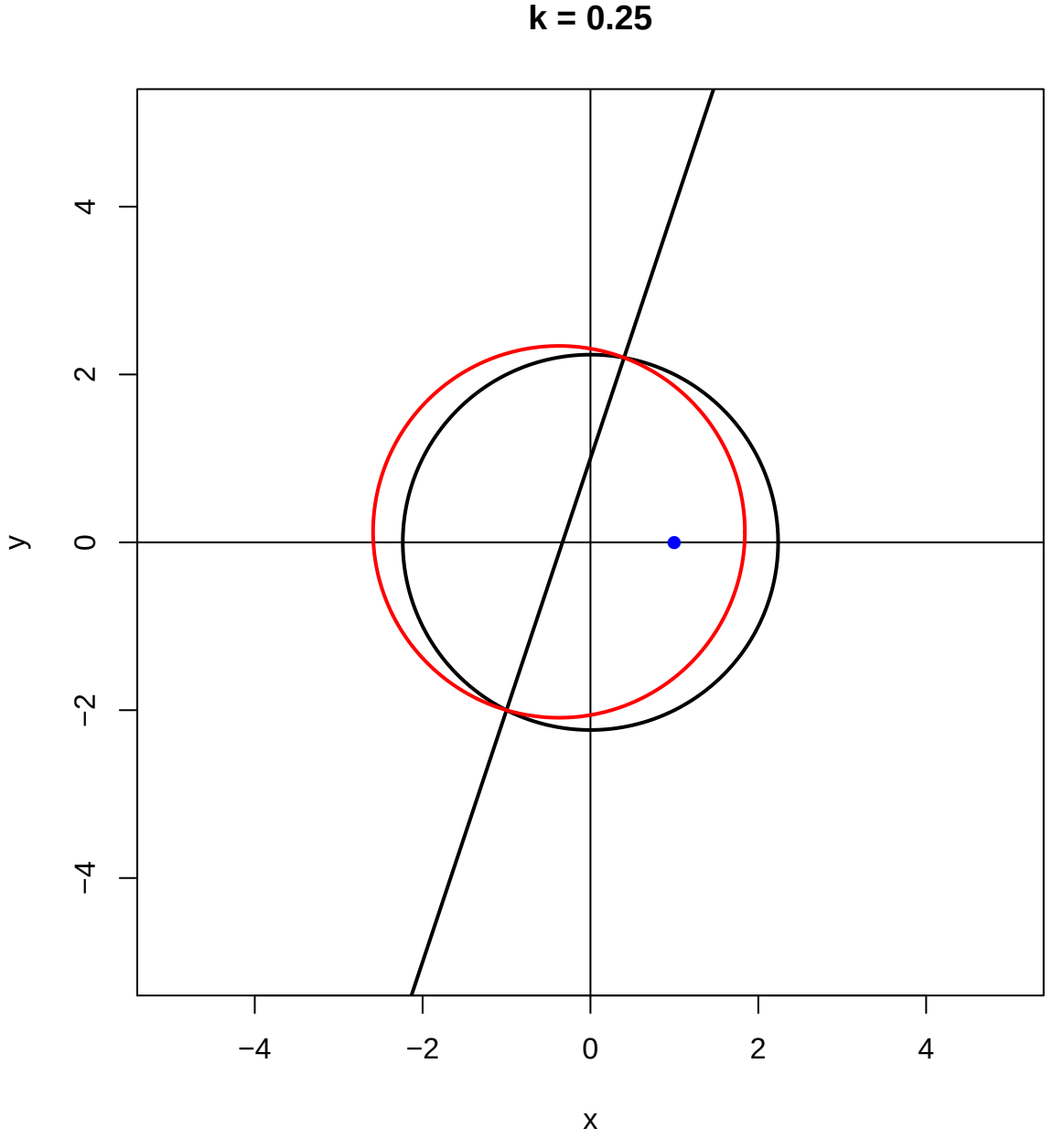

k = 0
y
x
4
2
0
−2
−4
−4
−2
0
2
4

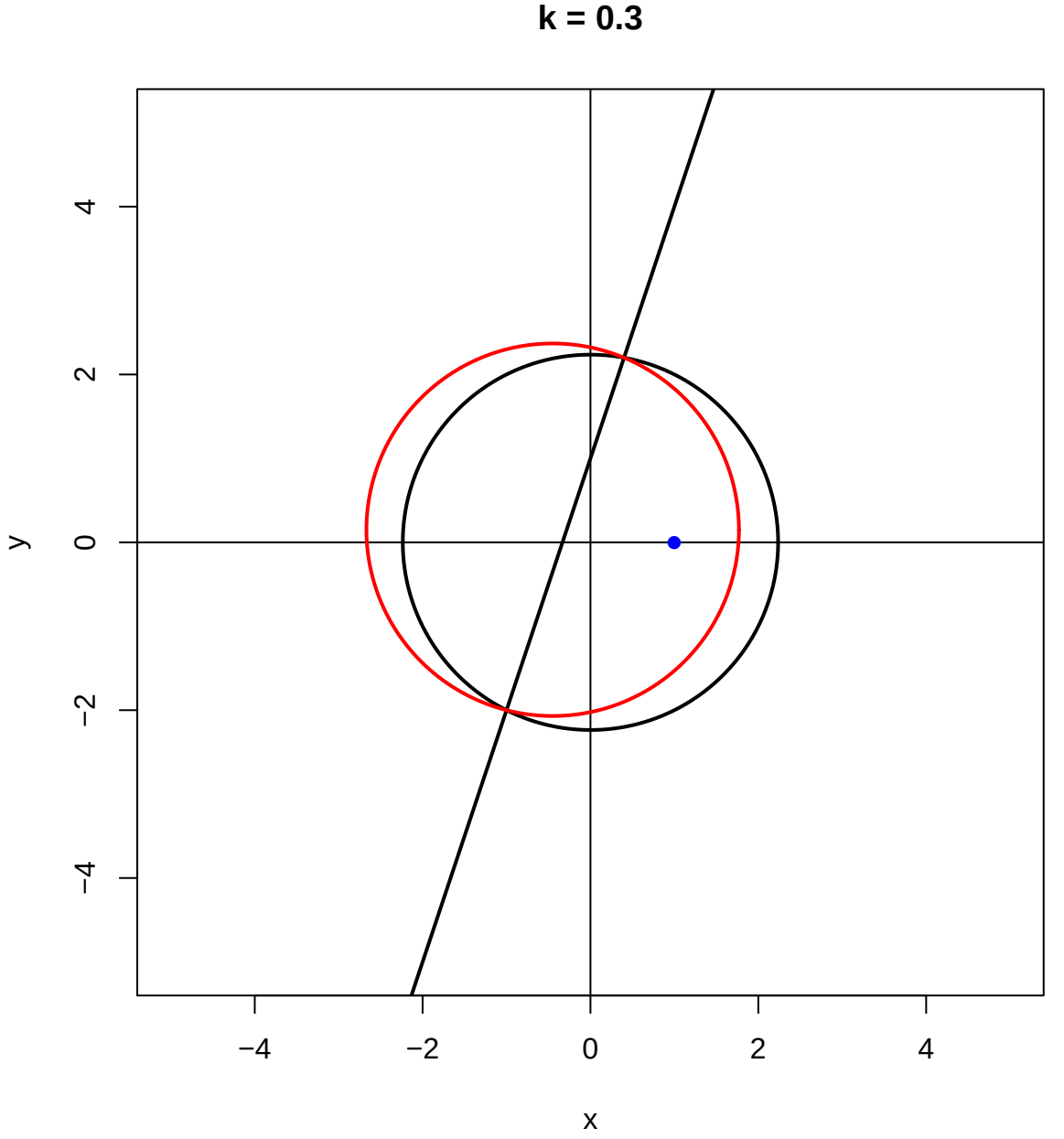

k = 0.05
y
x
4
2
0
−2
−4
−4
−2
0
2
4

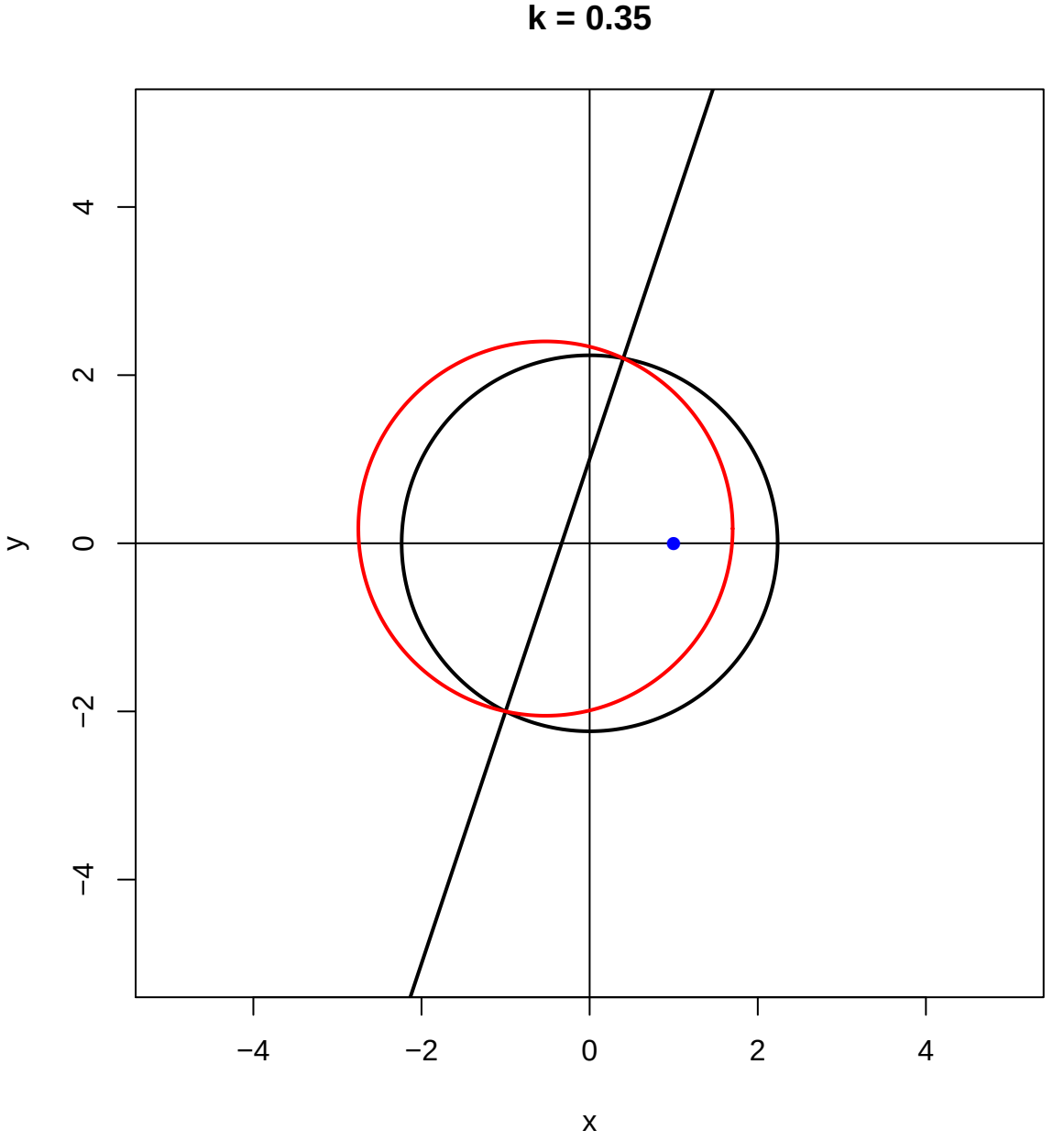

k = 0.1
y
x
4
2
0
−2
−4
−4
−2
0
2
4

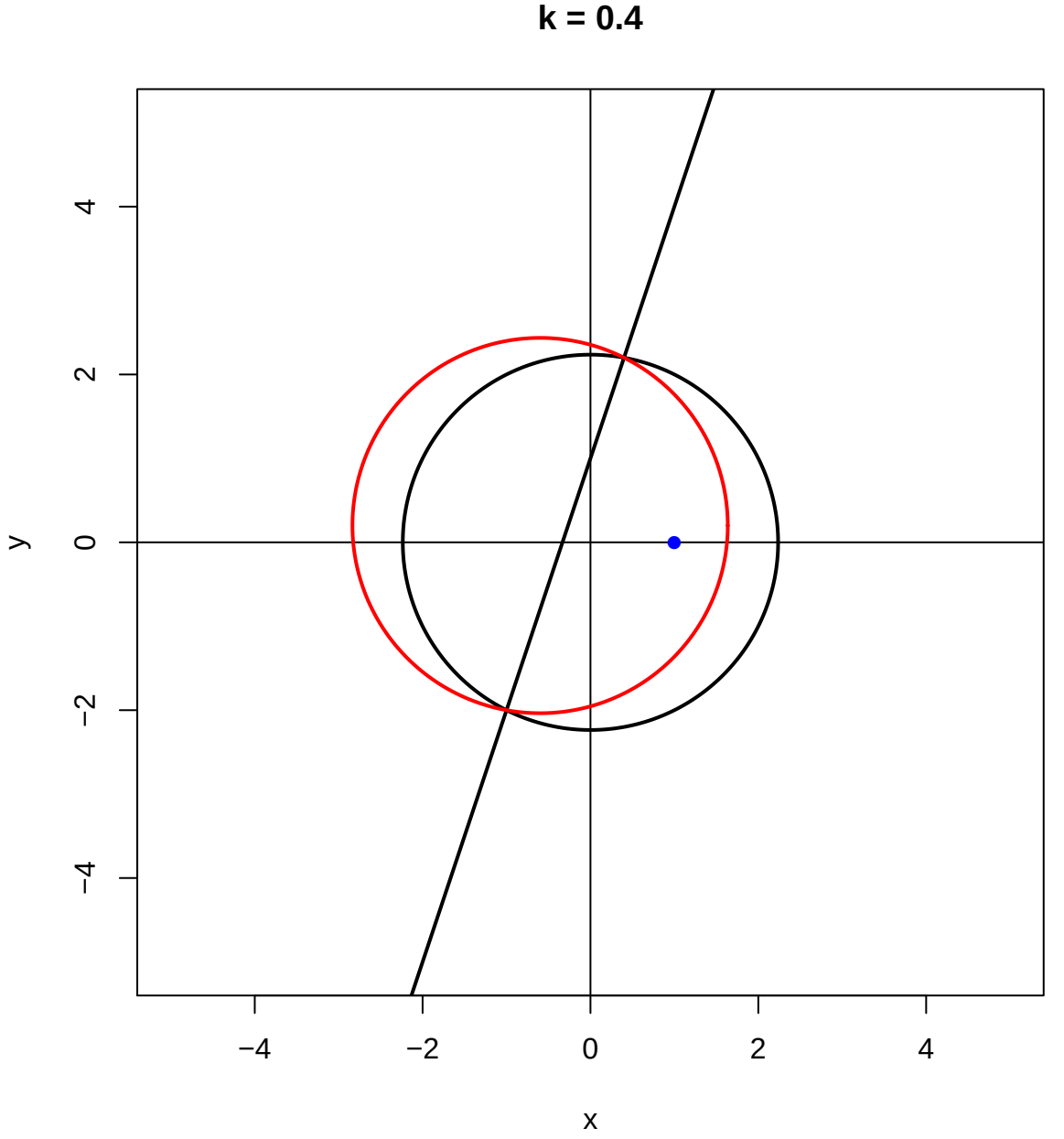

k = 0.15
y
x
4
2
0
−2
−4
−4
−2
0
2
4

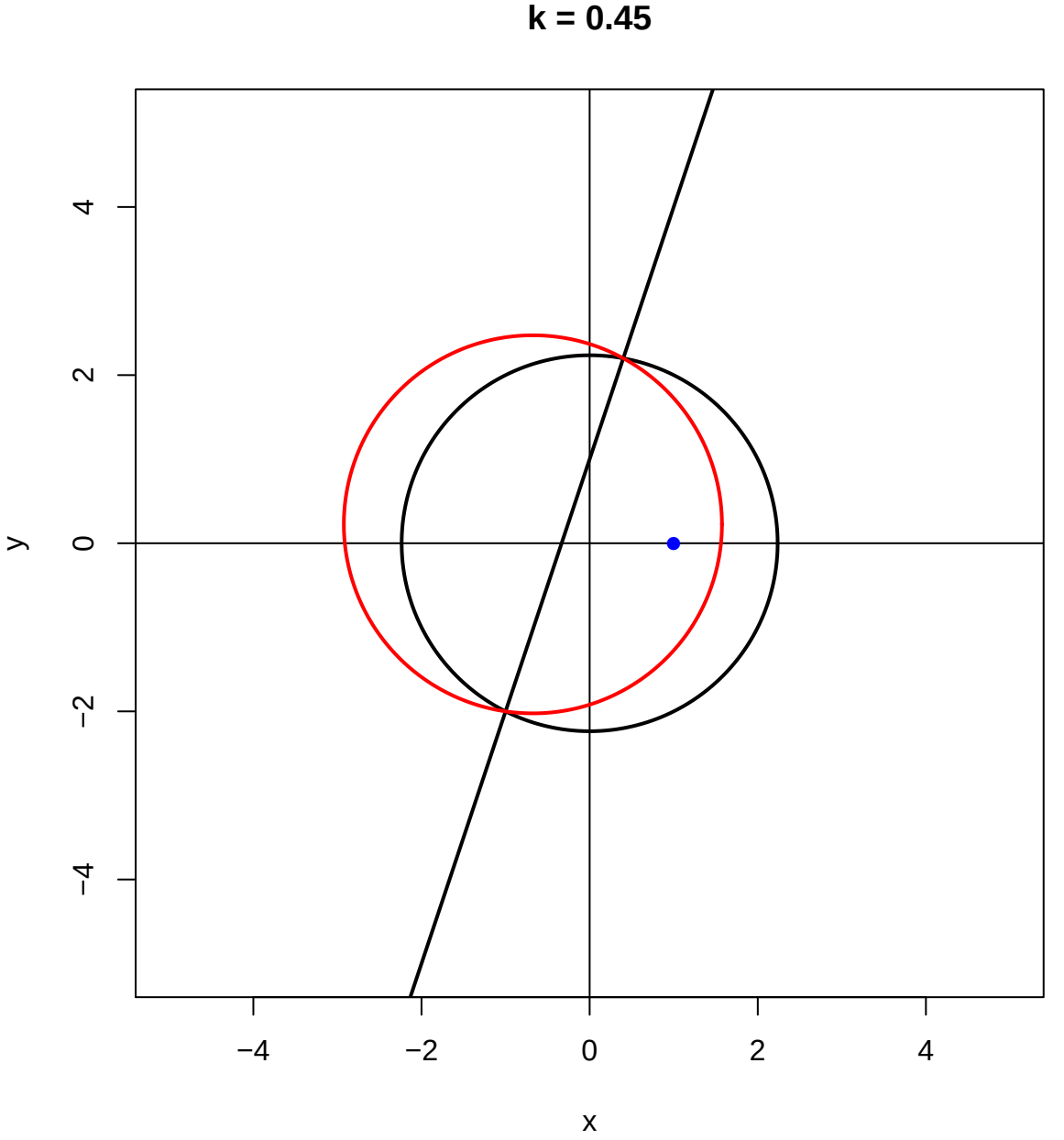

k = 0.2
y
x
4
2
0
−2
−4
−4
−2
0
2
4

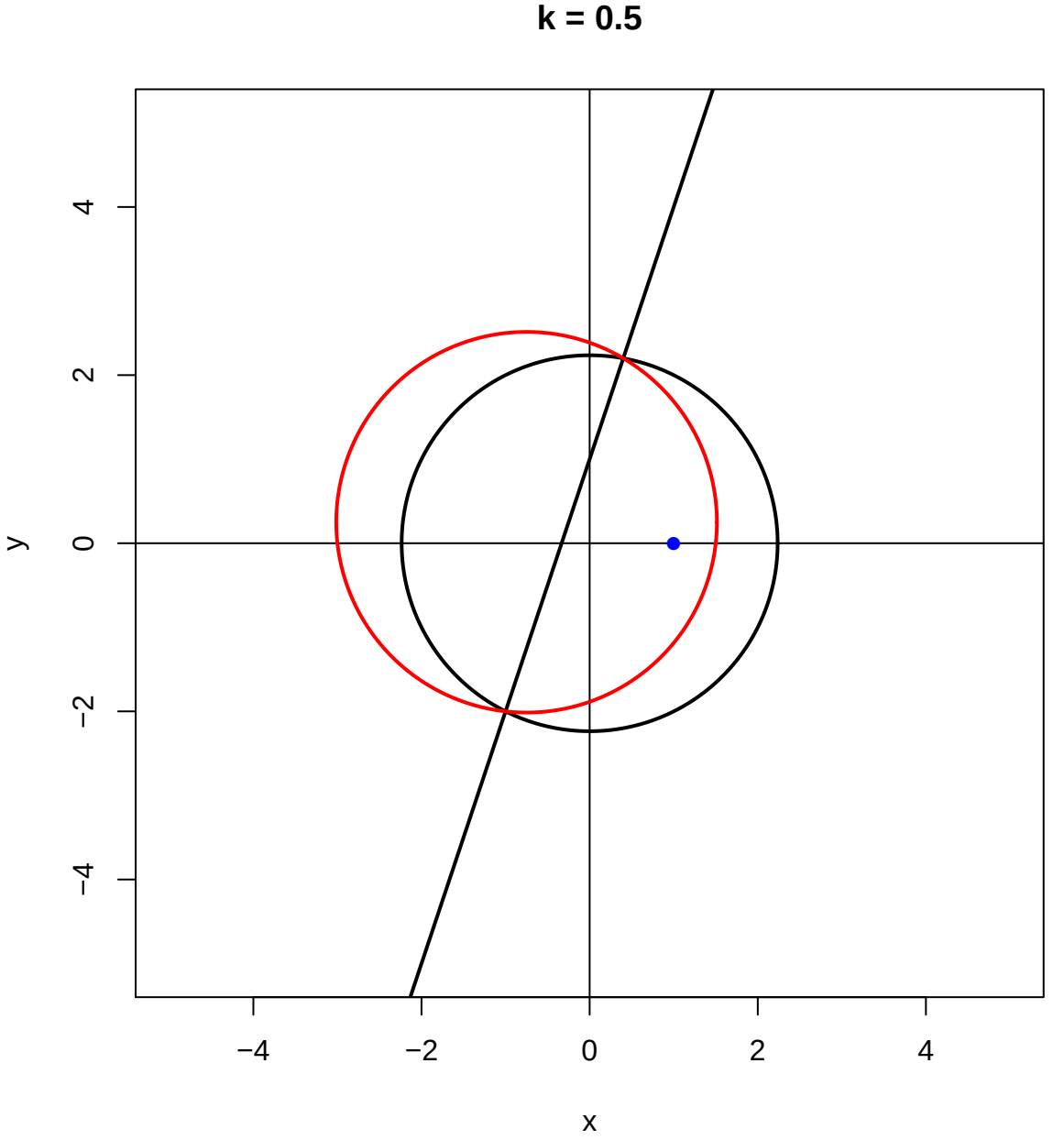

k = 0.25
y
x
4
2
0
−2
−4
−4
−2
0
2
4

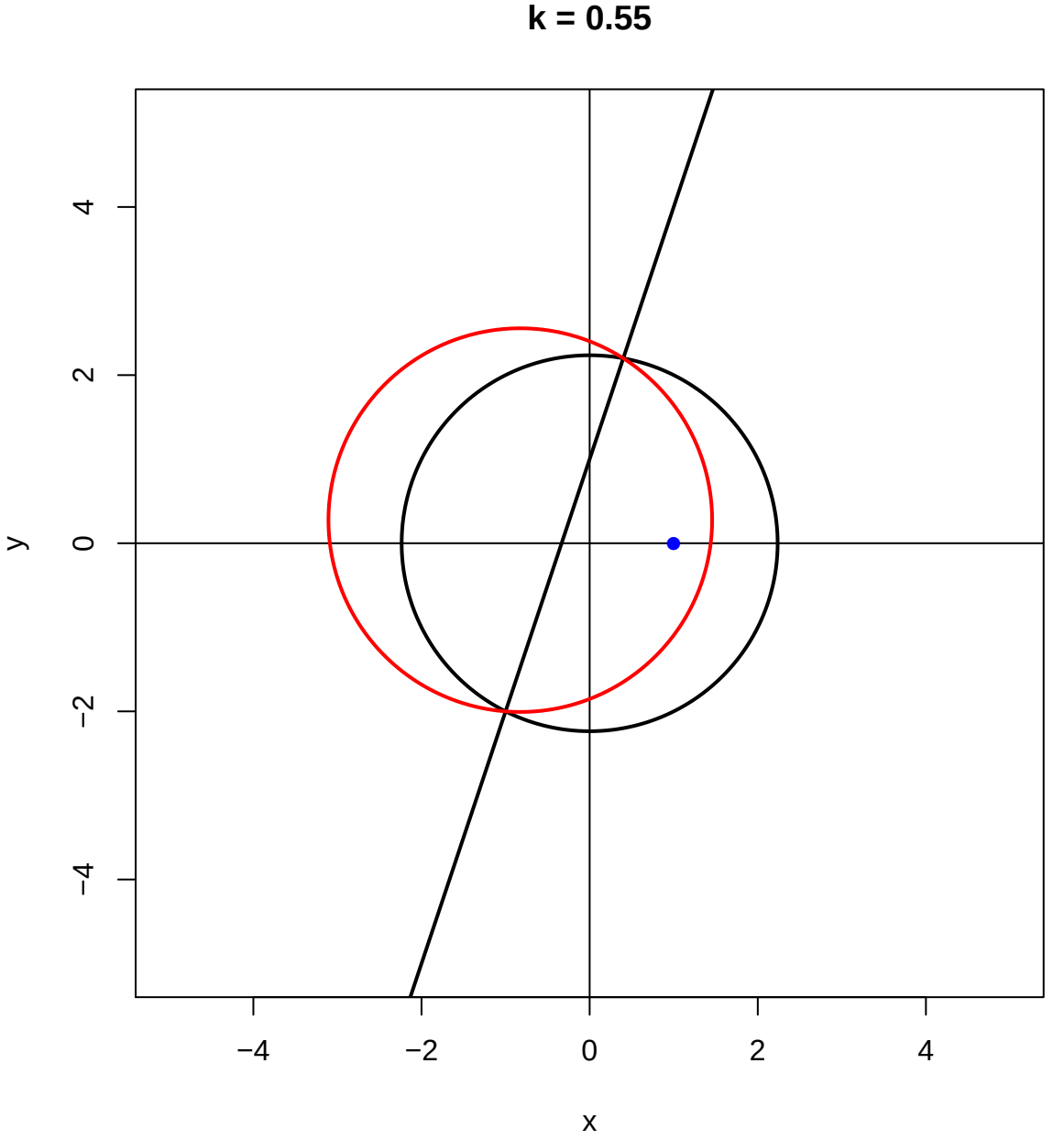

k = 0.3
y
x
4
2
0
−2
−4
−4
−2
0
2
4

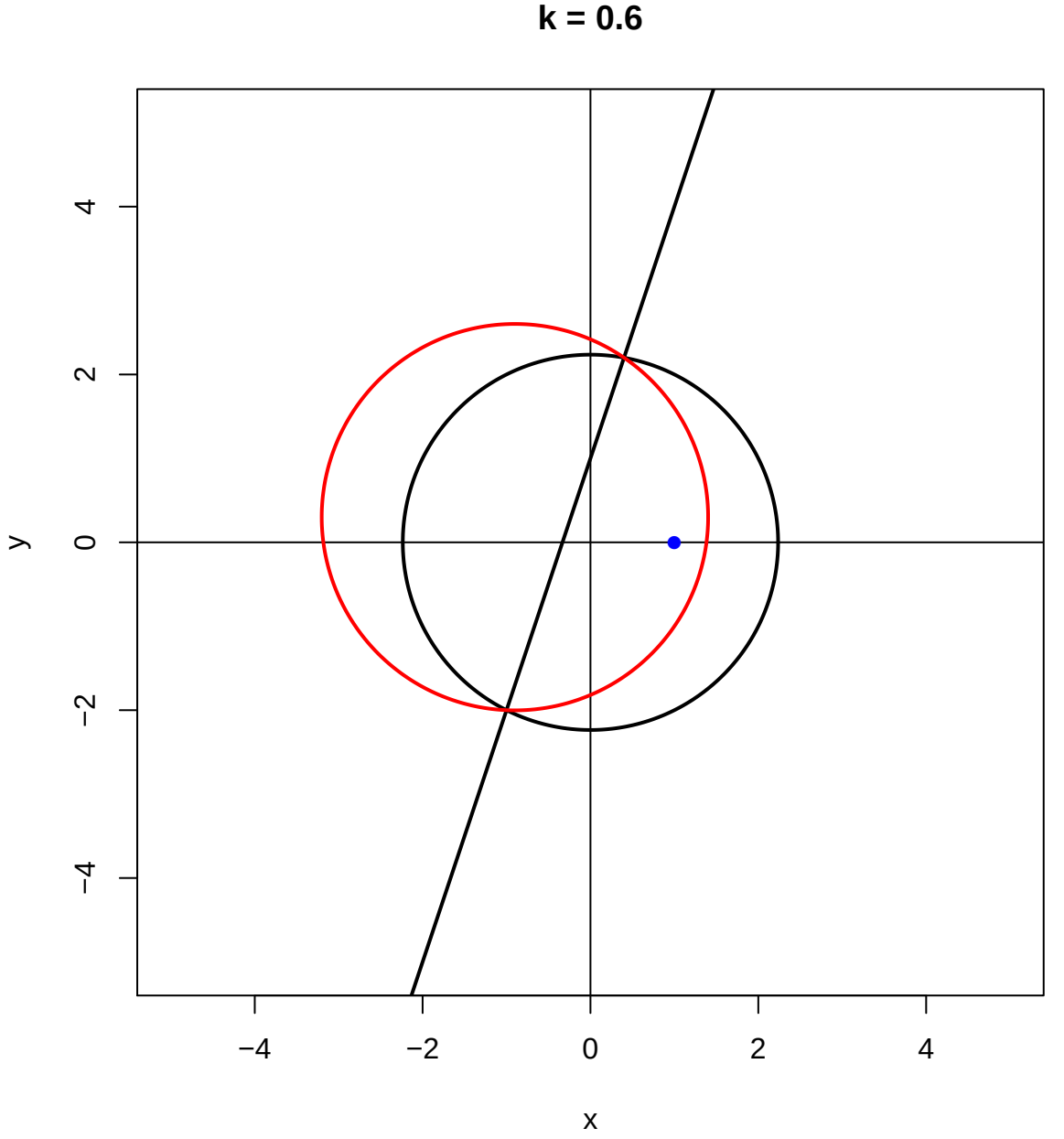

k = 0.35
y
x
4
2
0
−2
−4
−4
−2
0
2
4

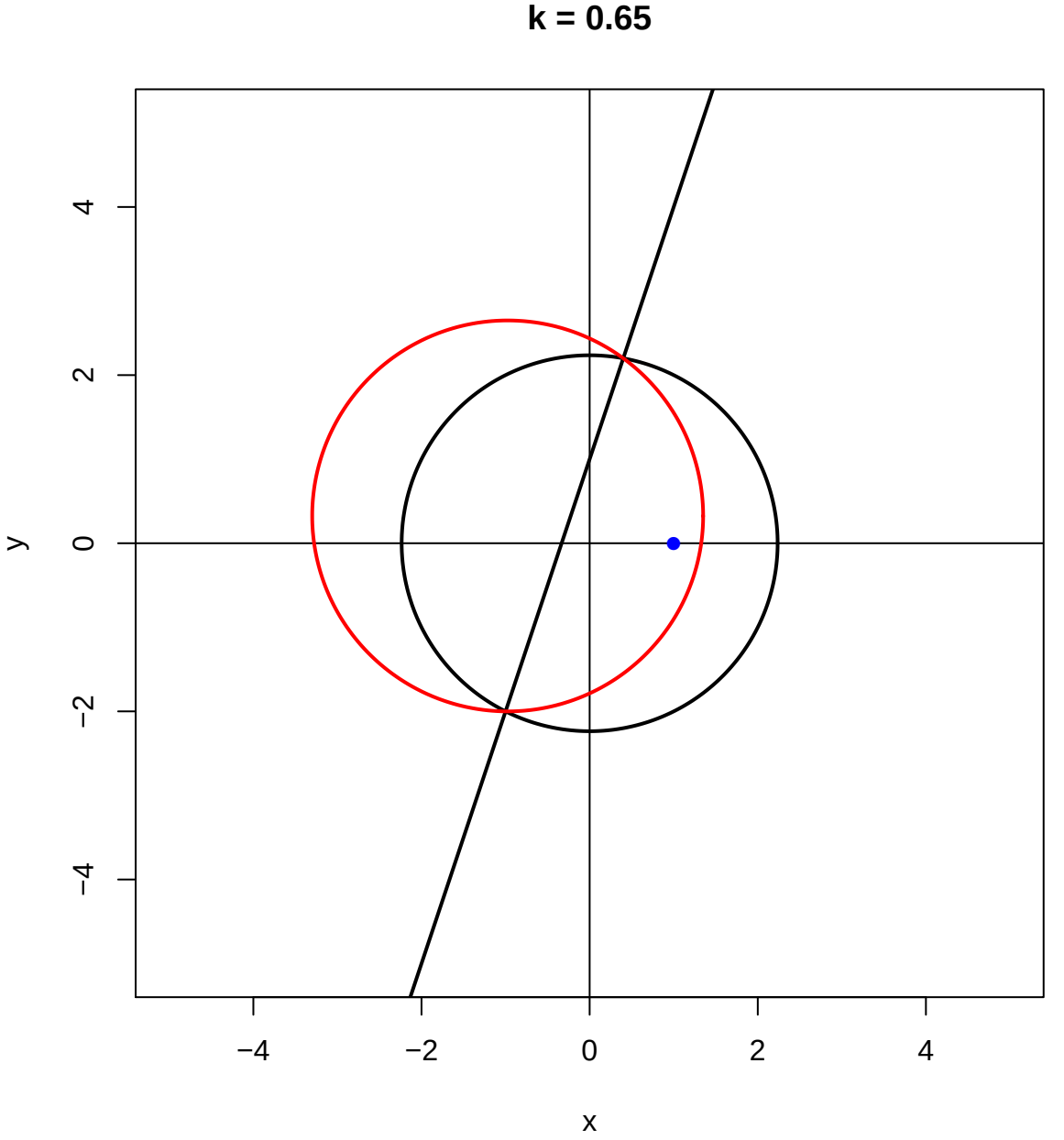

k = 0.4
y
x
4
2
0
−2
−4
−4
−2
0
2
4

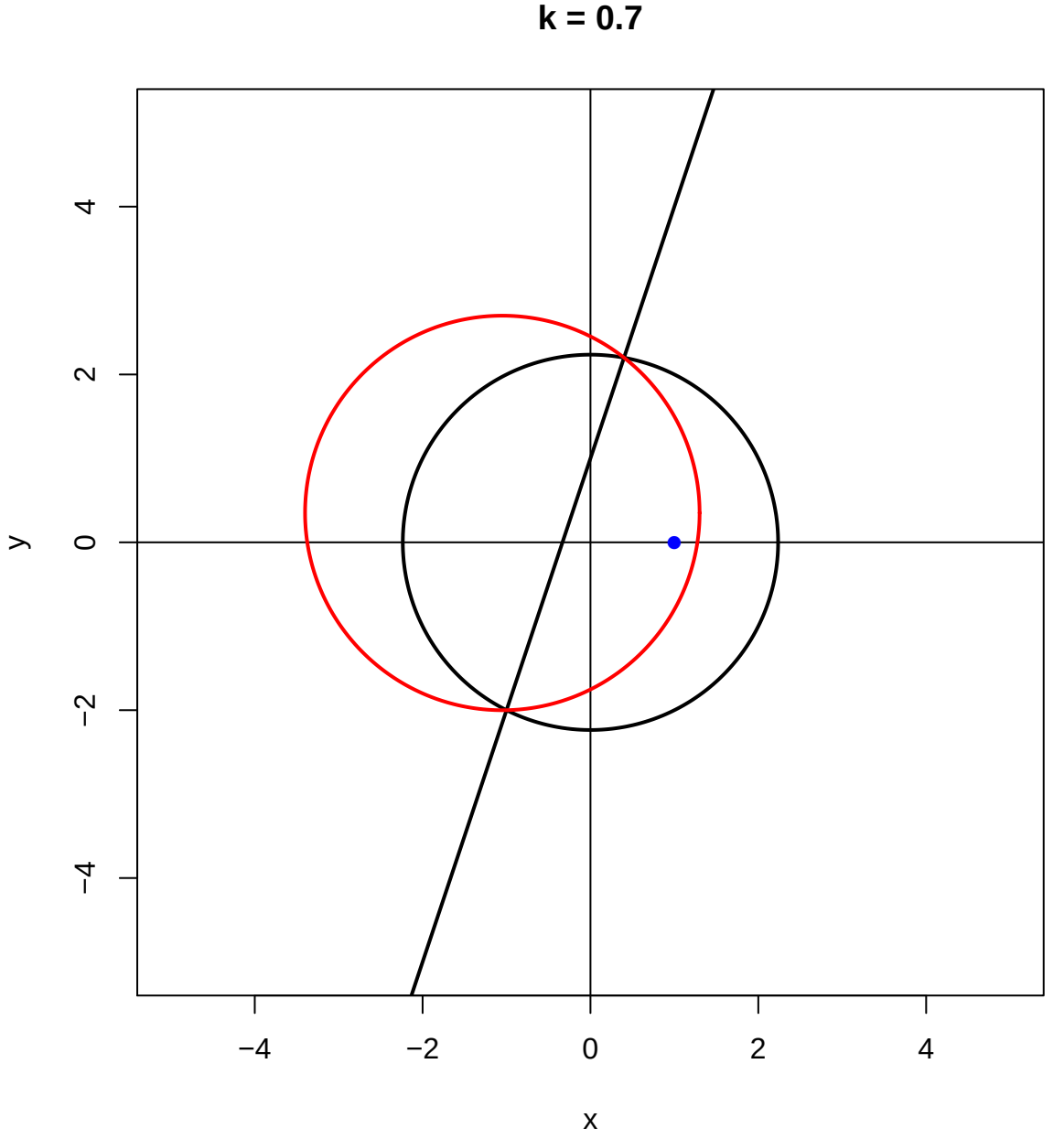

k = 0.45
y
x
4
2
0
−2
−4
−4
−2
0
2
4

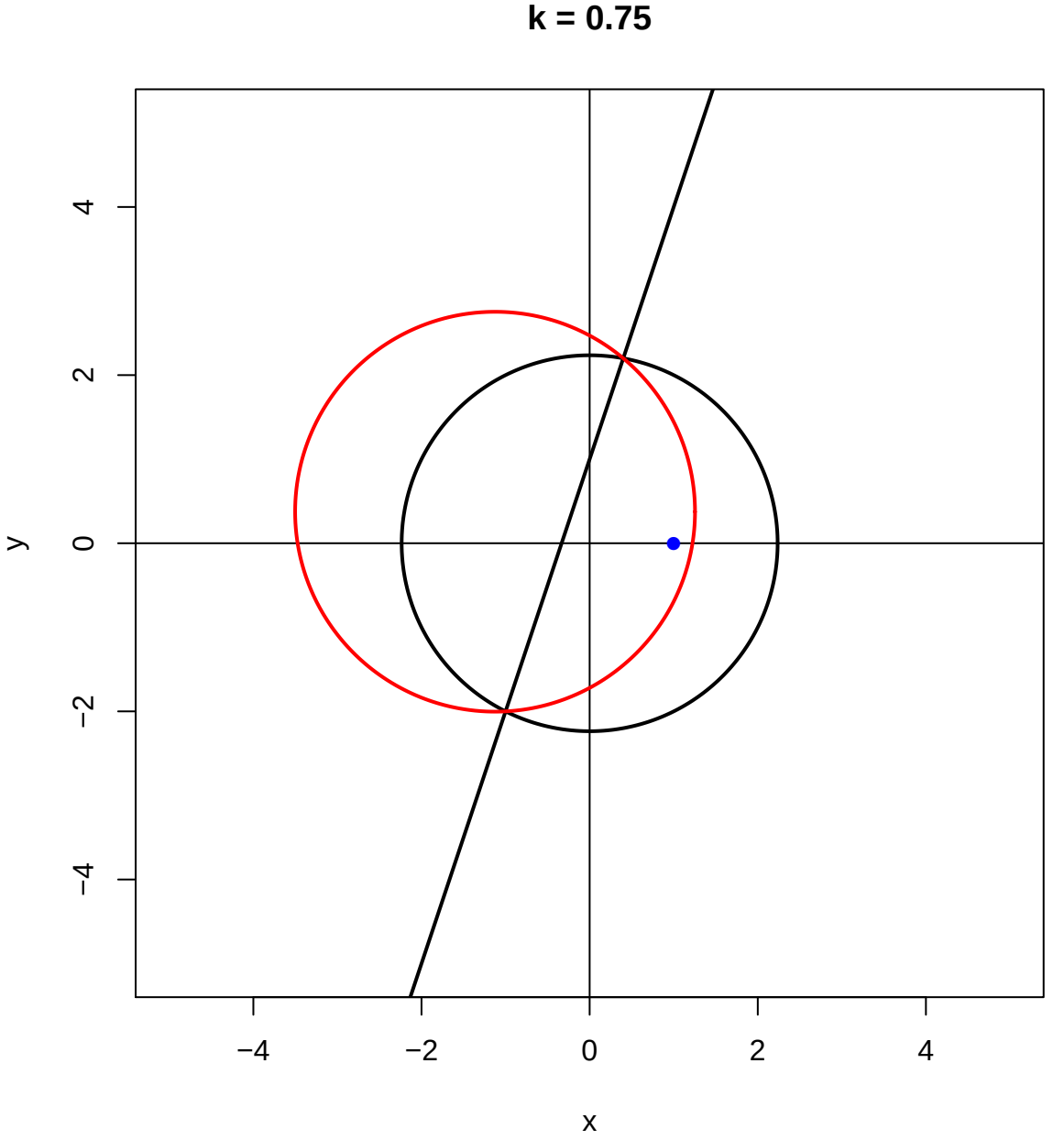

k = 0.5
y
x
4
2
0
−2
−4
−4
−2
0
2
4

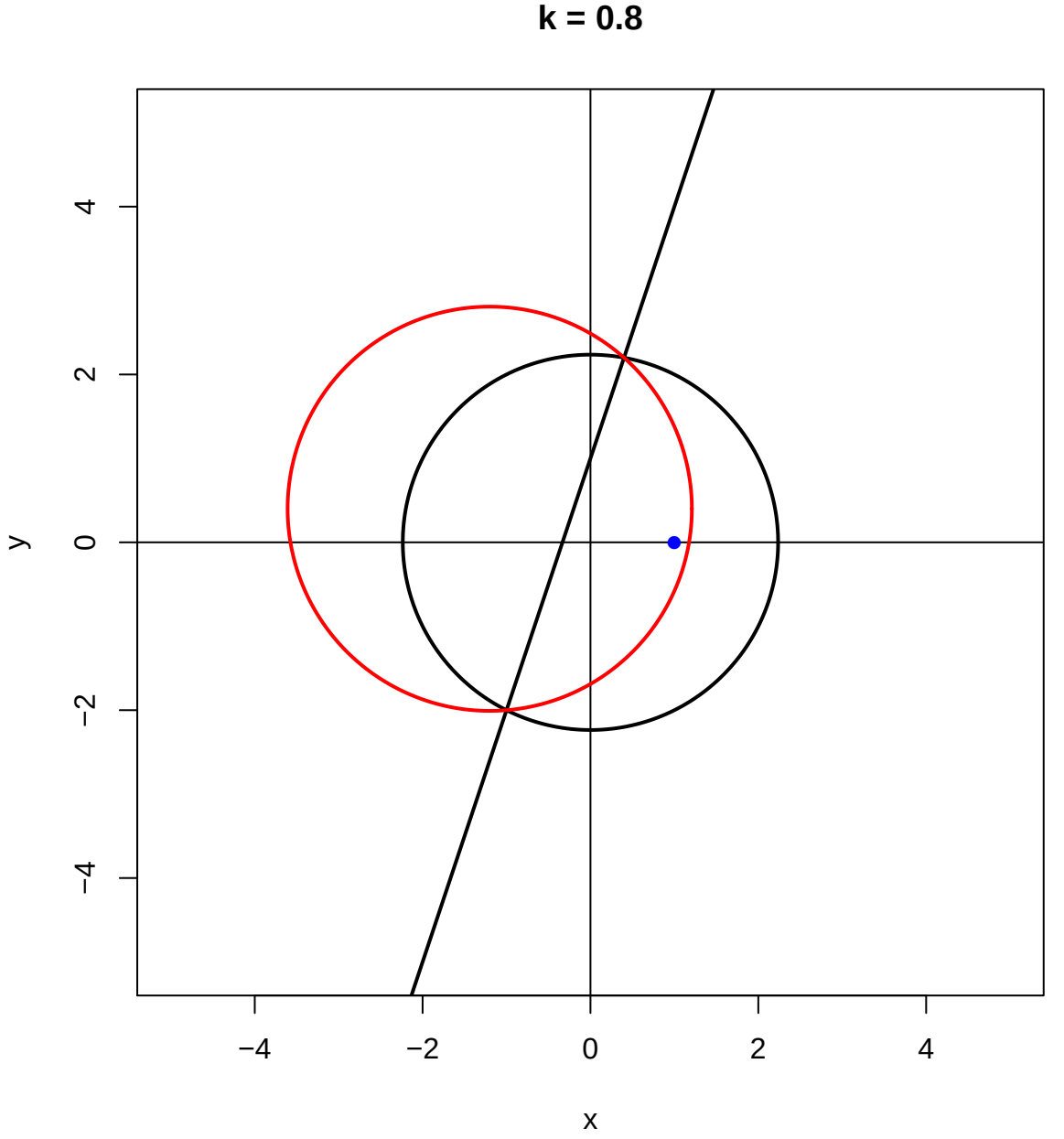

k = 0.55
y
x
4
2
0
−2
−4
−4
−2
0
2
4

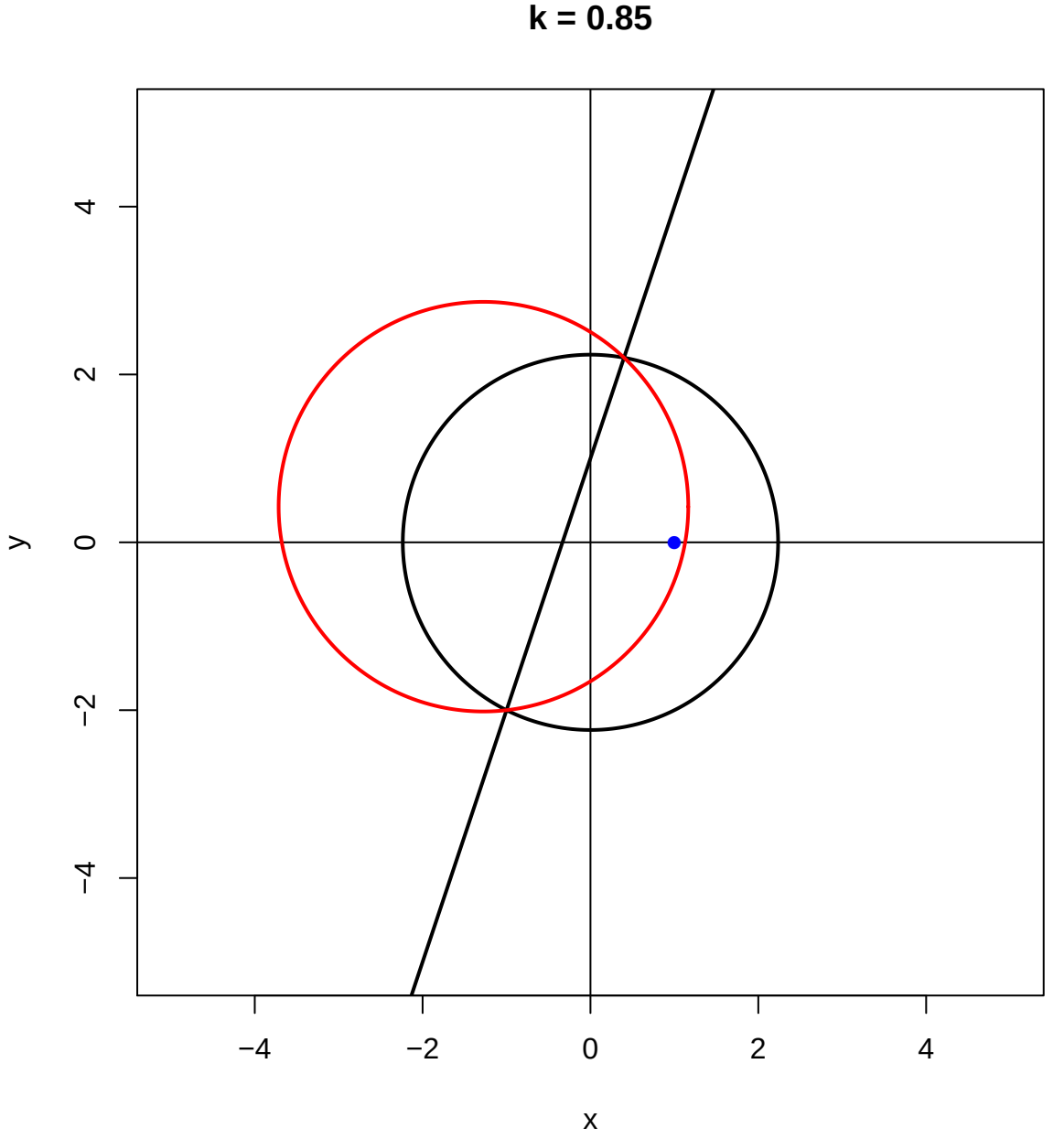

k = 0.6
y
x
4
2
0
−2
−4
−4
−2
0
2
4

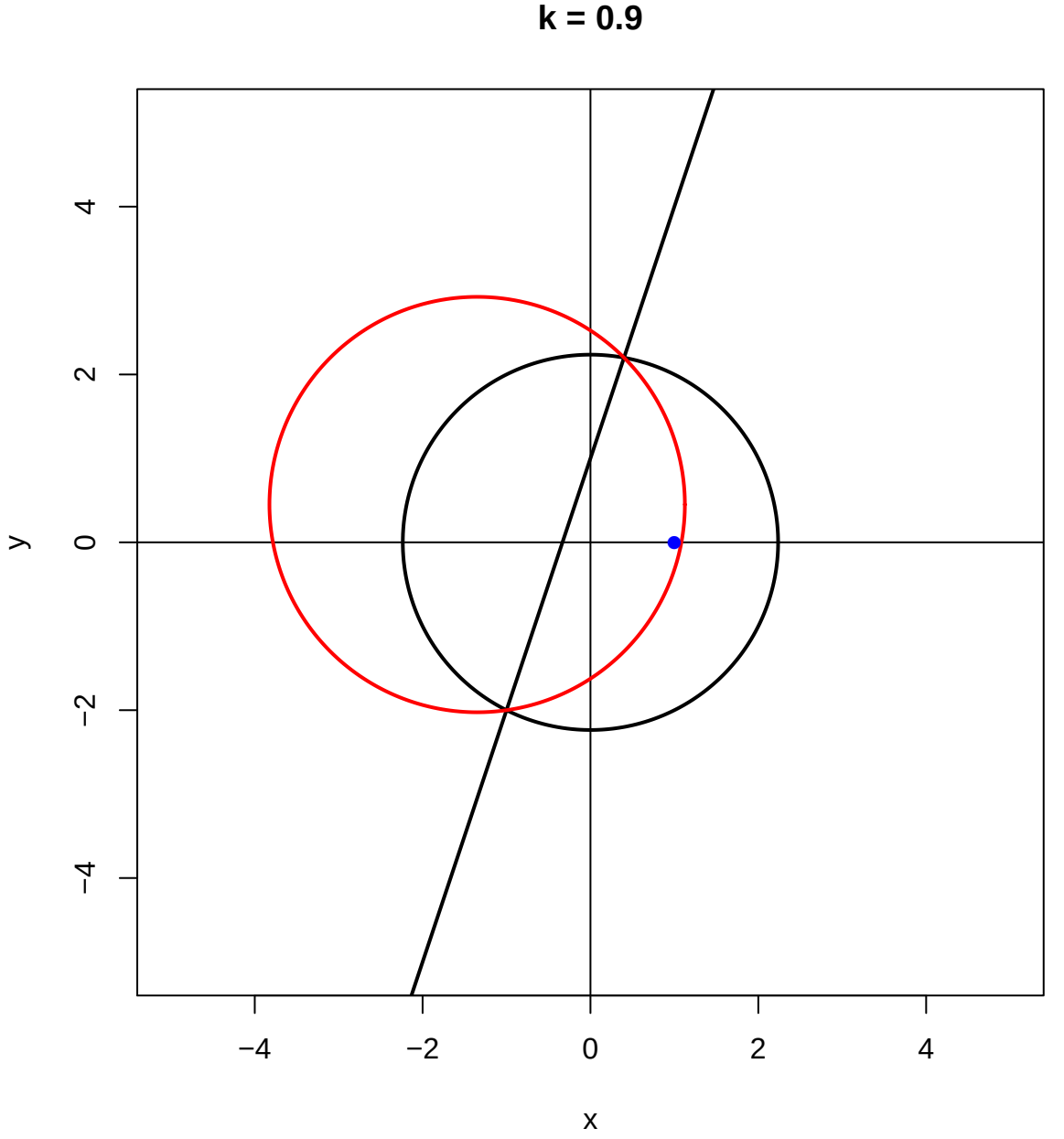

k = 0.65
y
x
4
2
0
−2
−4
−4
−2
0
2
4

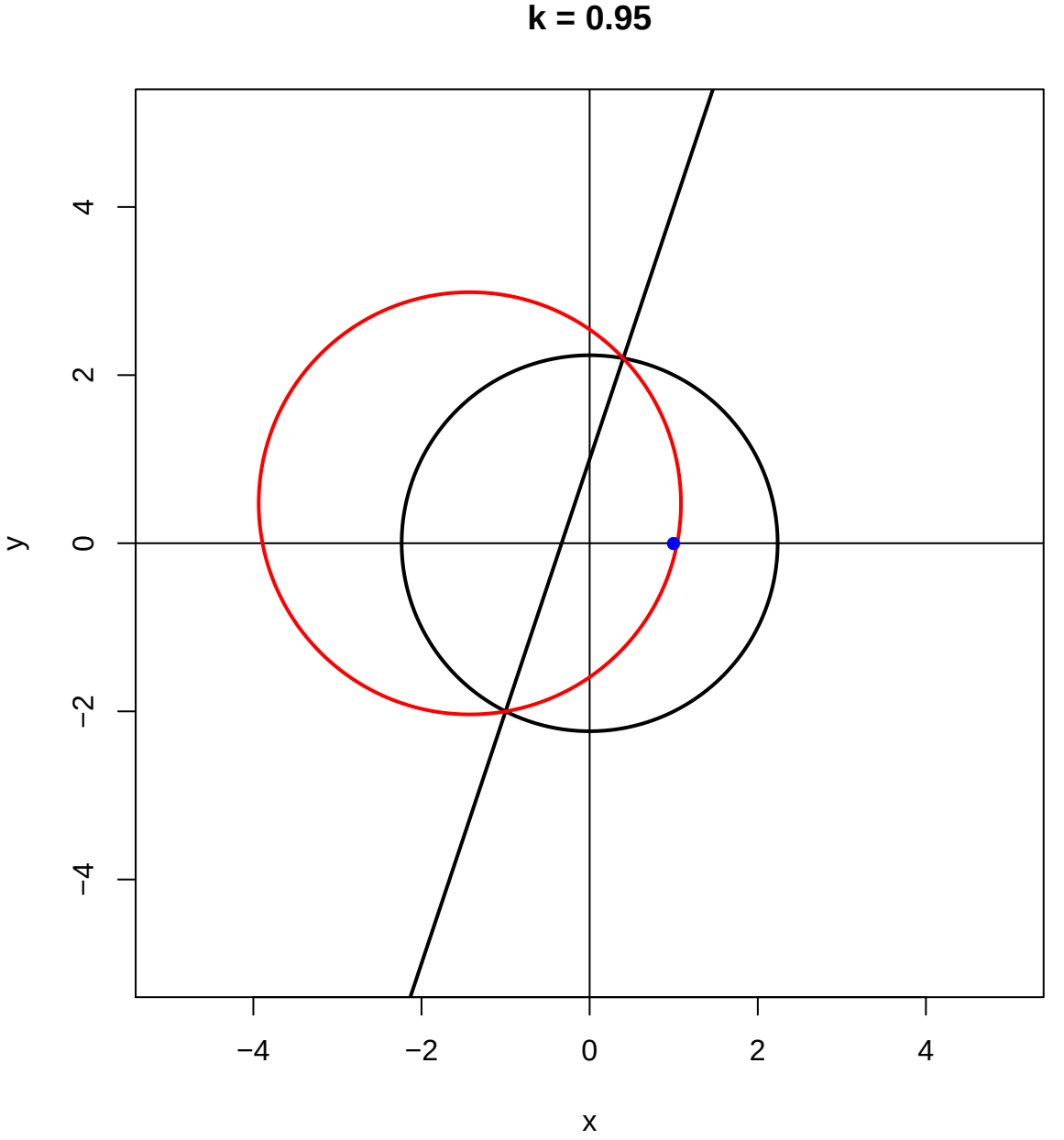

k = 0.7
y
x
4
2
0
−2
−4
−4
−2
0
2
4

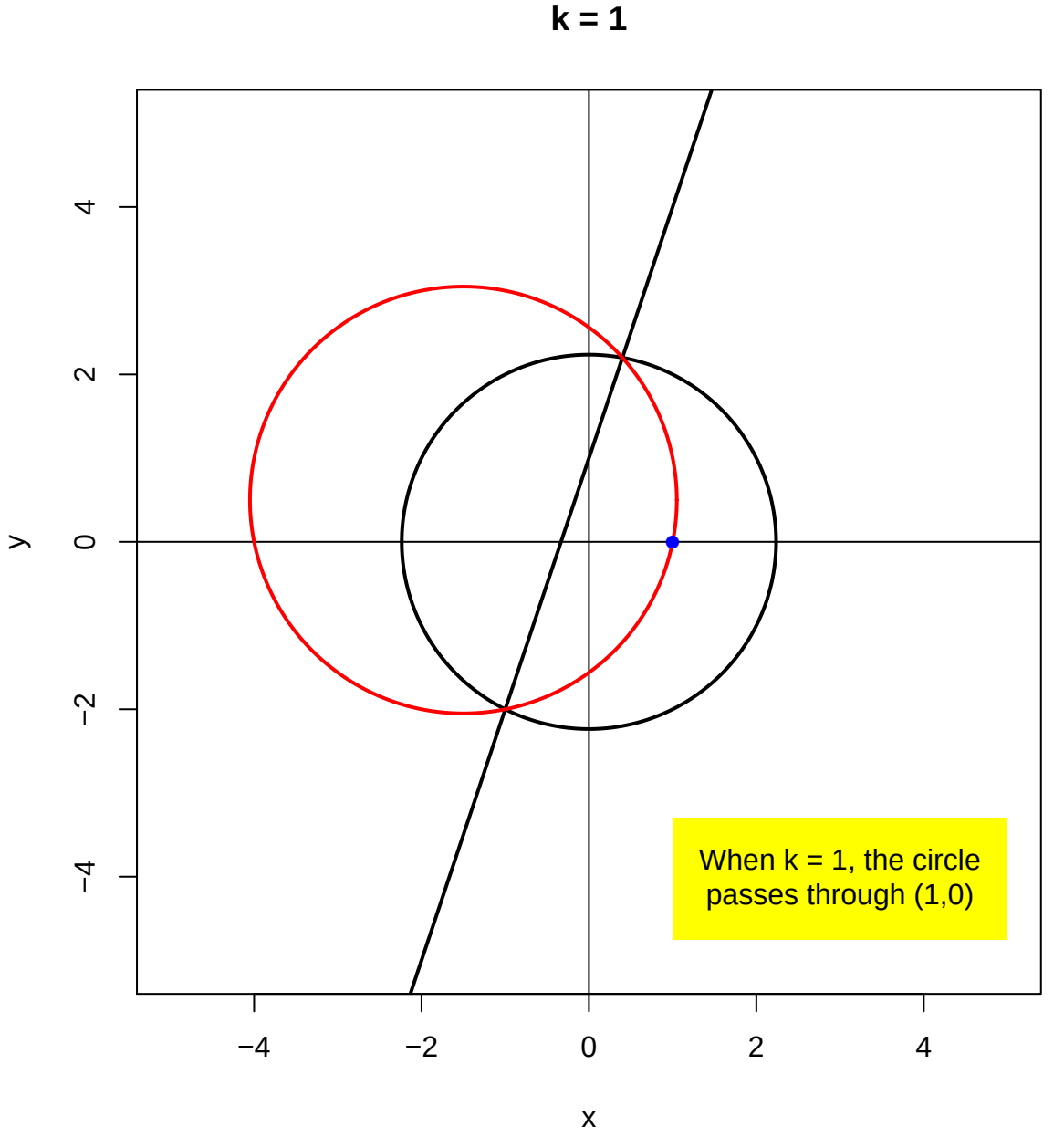

k = 0.75
y
x
4
2
0
−2
−4
−4
−2
0
2
4

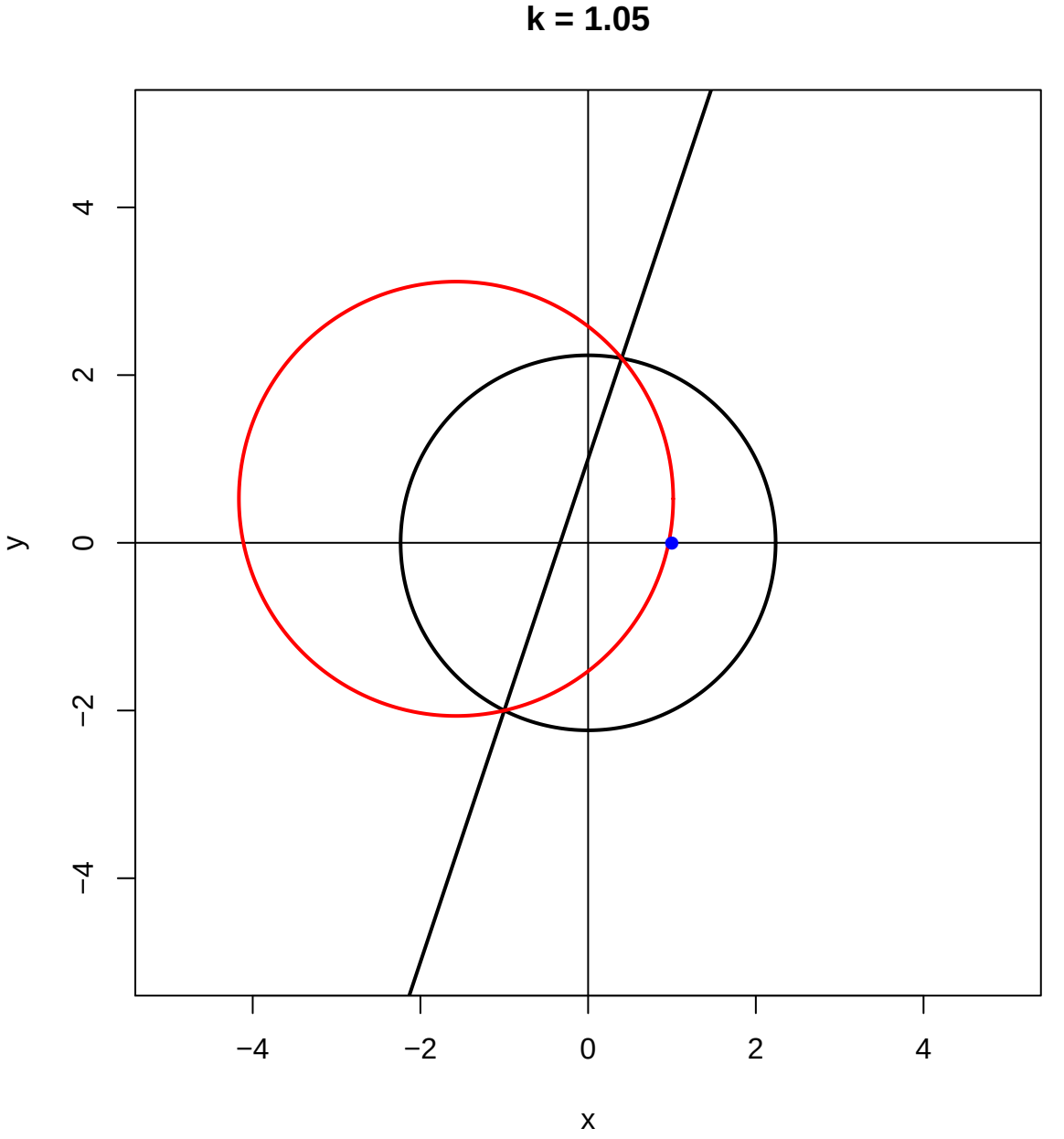

k = 0.8
y
x
4
2
0
−2
−4
−4
−2
0
2
4

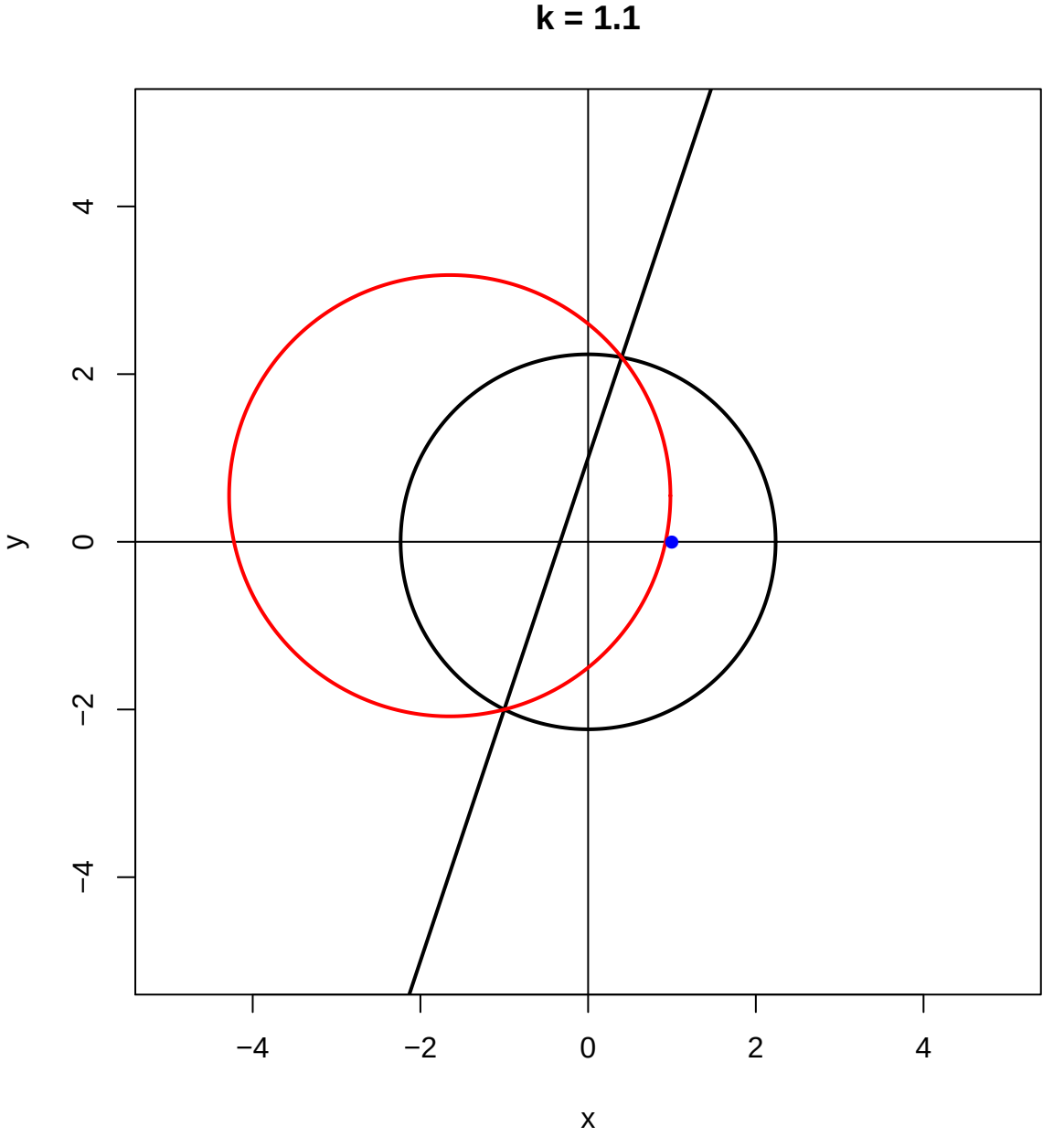

k = 0.85
y
x
4
2
0
−2
−4
−4
−2
0
2
4

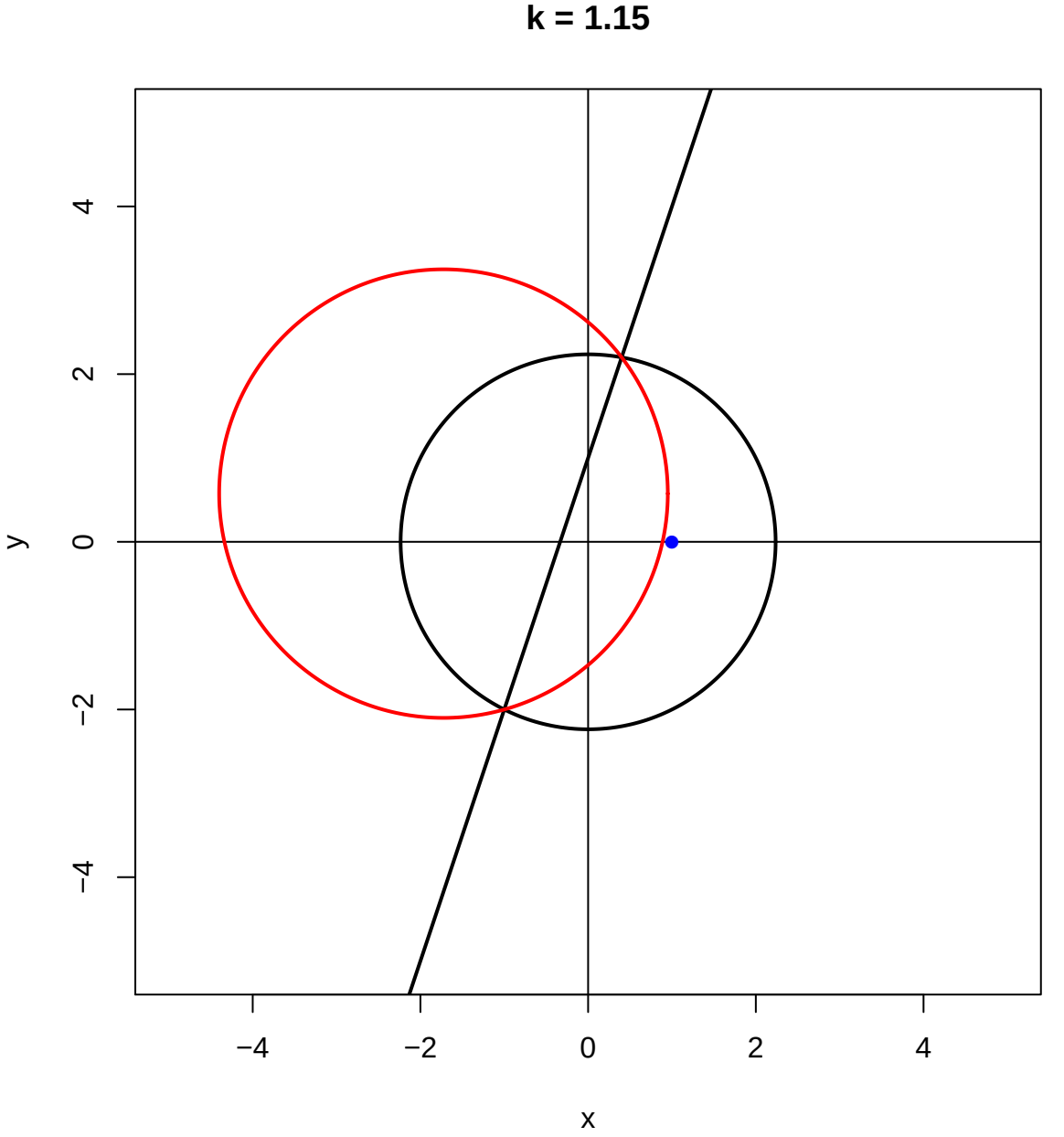

k = 0.9
y
x
4
2
0
−2
−4
−4
−2
0
2
4

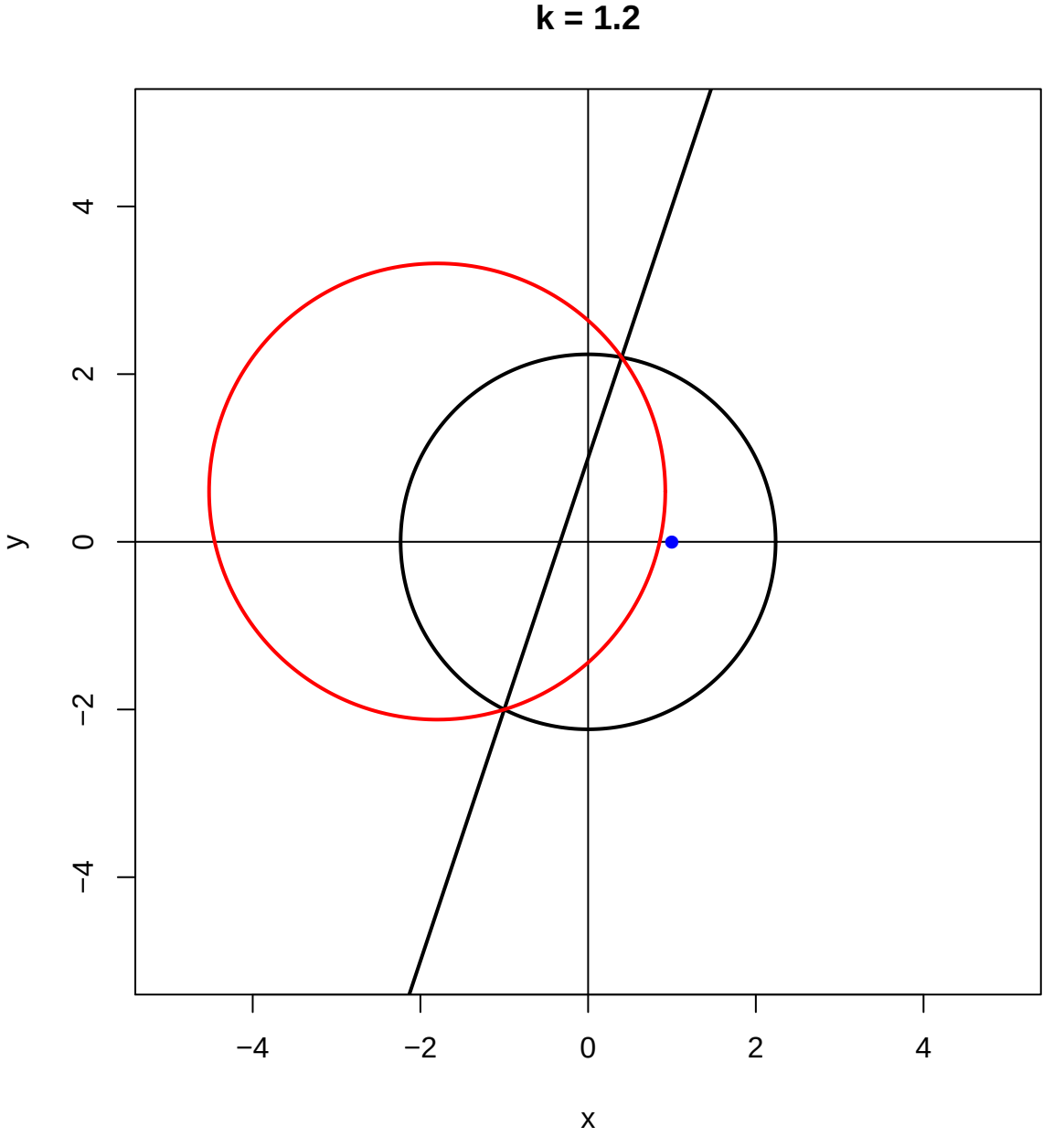

k = 0.95
y
x
4
2
0
−2
−4
−4
−2
0
2
4

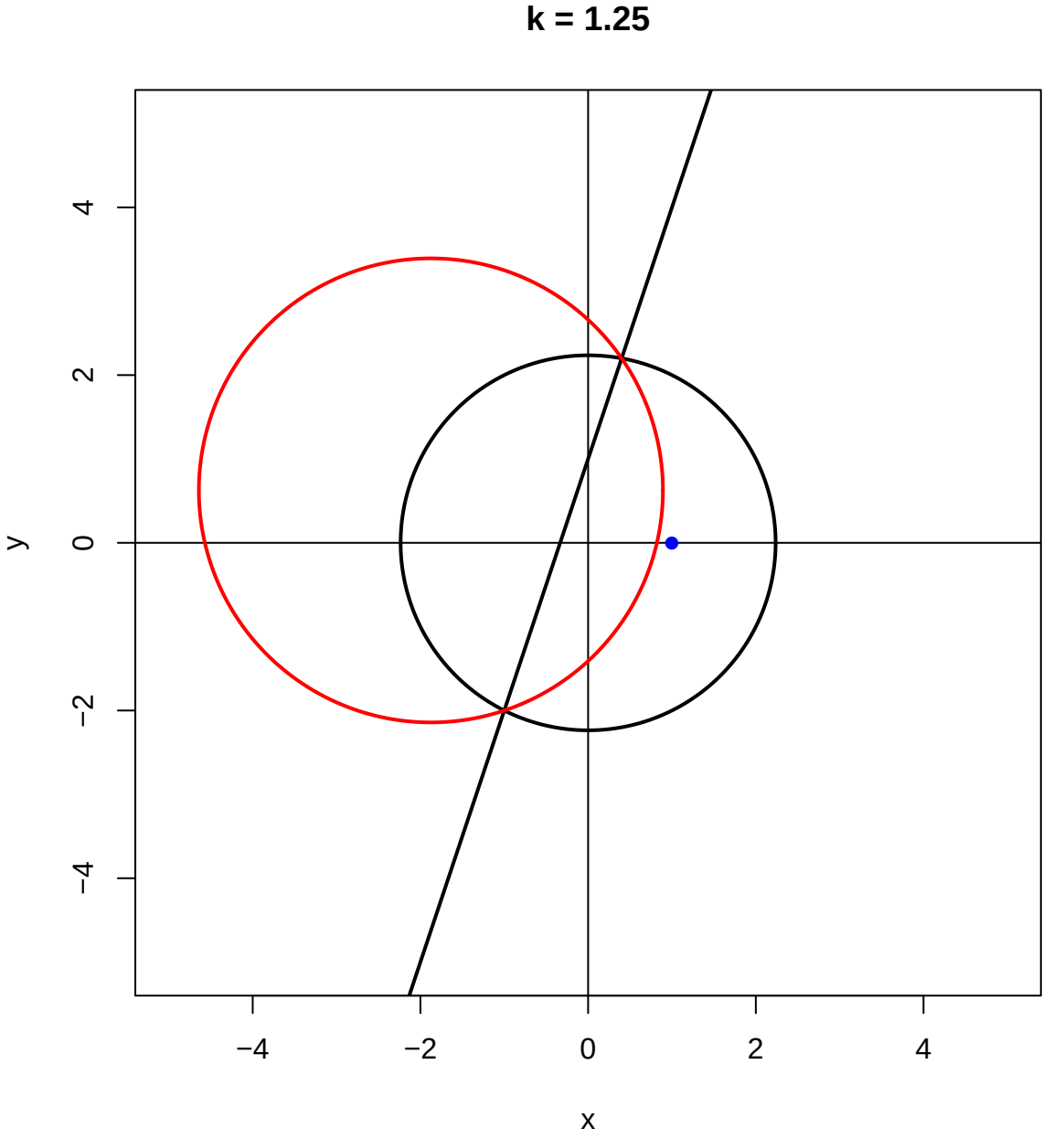

k = 1
y
x
4
2
0
−2
−4
−4
−2
0
2
4
When k = 1, the circle
passes through (1,0)

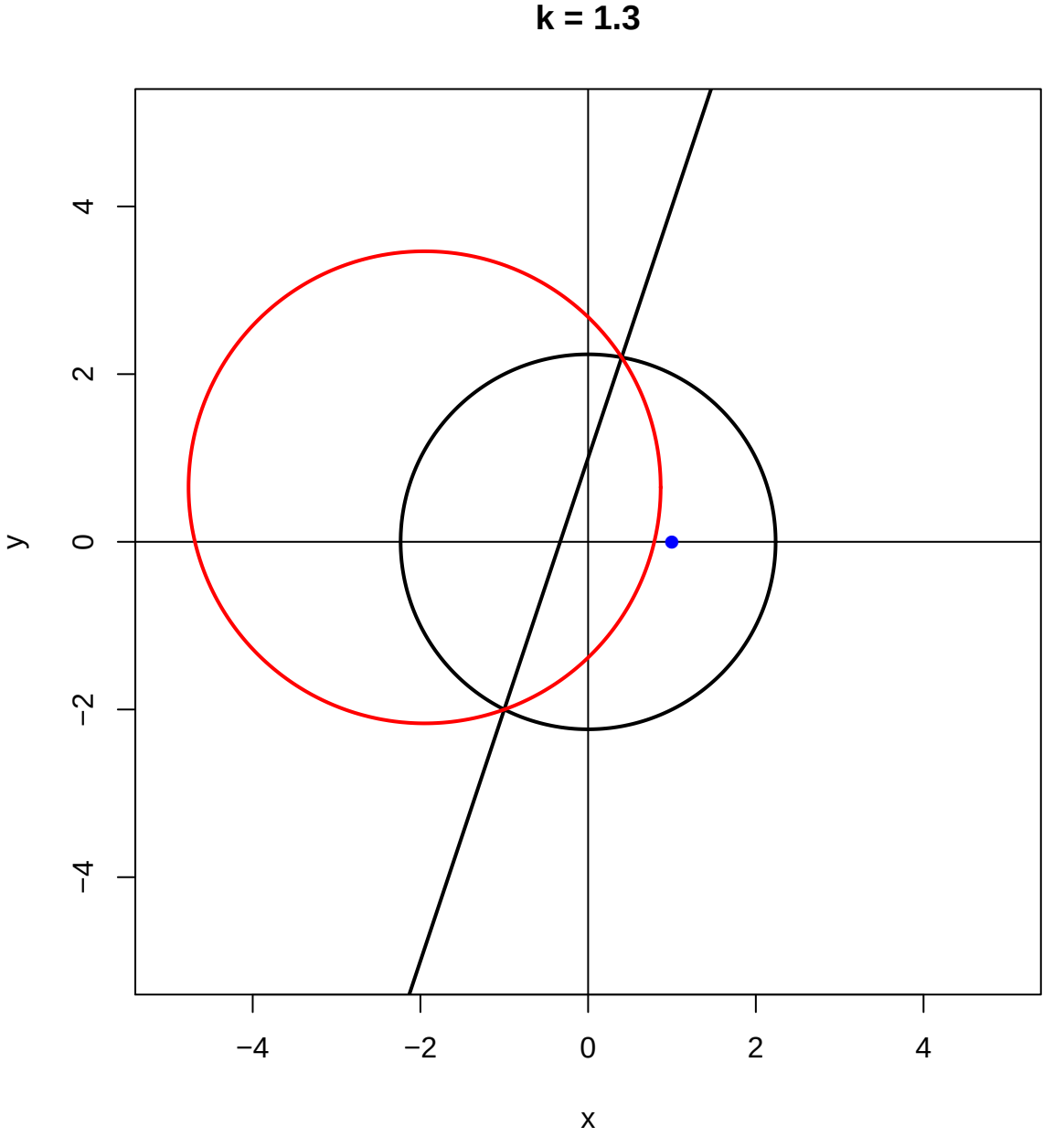

k = 1.05
y
x
4
2
0
−2
−4
−4
−2
0
2
4

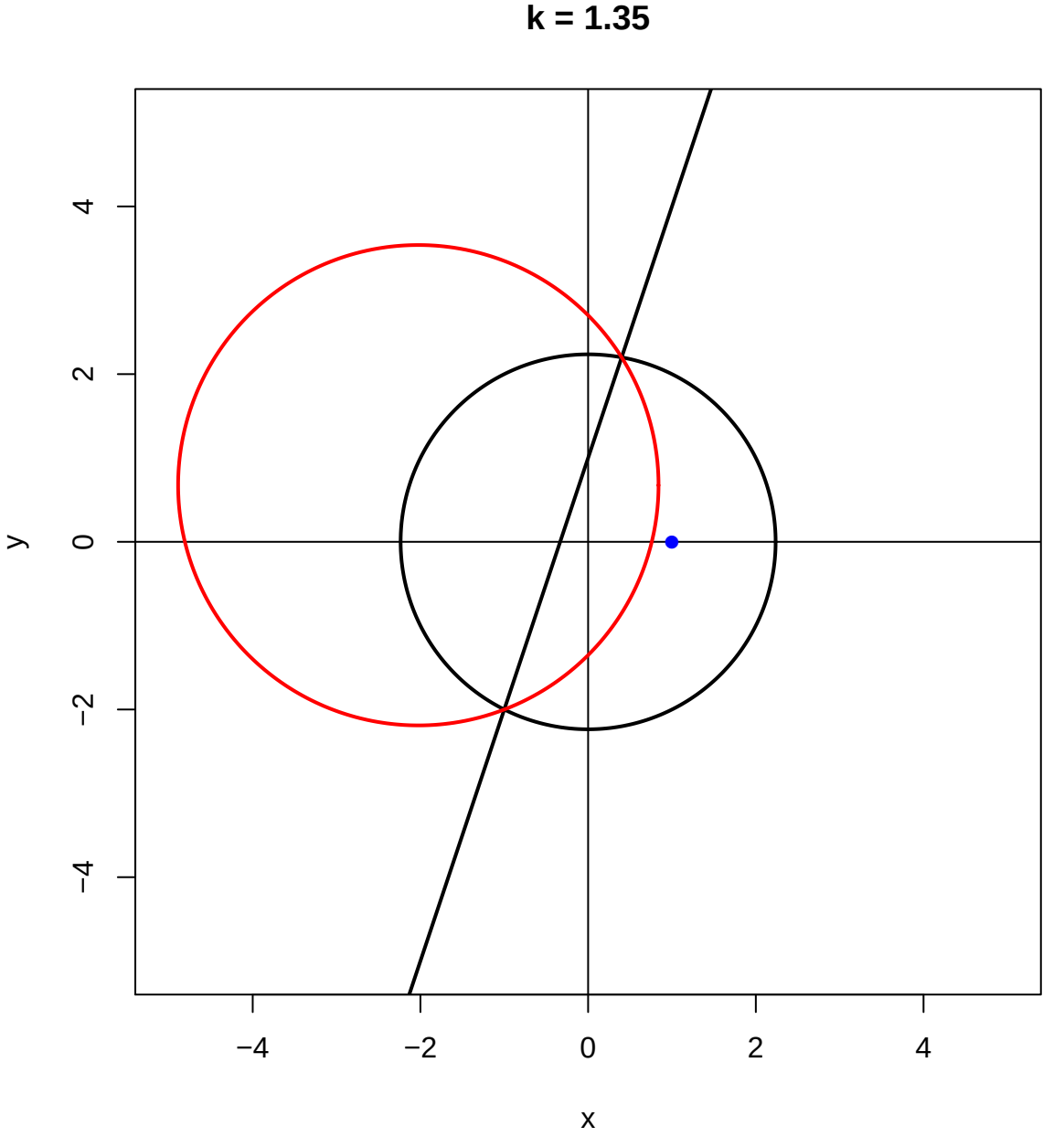

k = 1.1
y
x
4
2
0
−2
−4
−4
−2
0
2
4

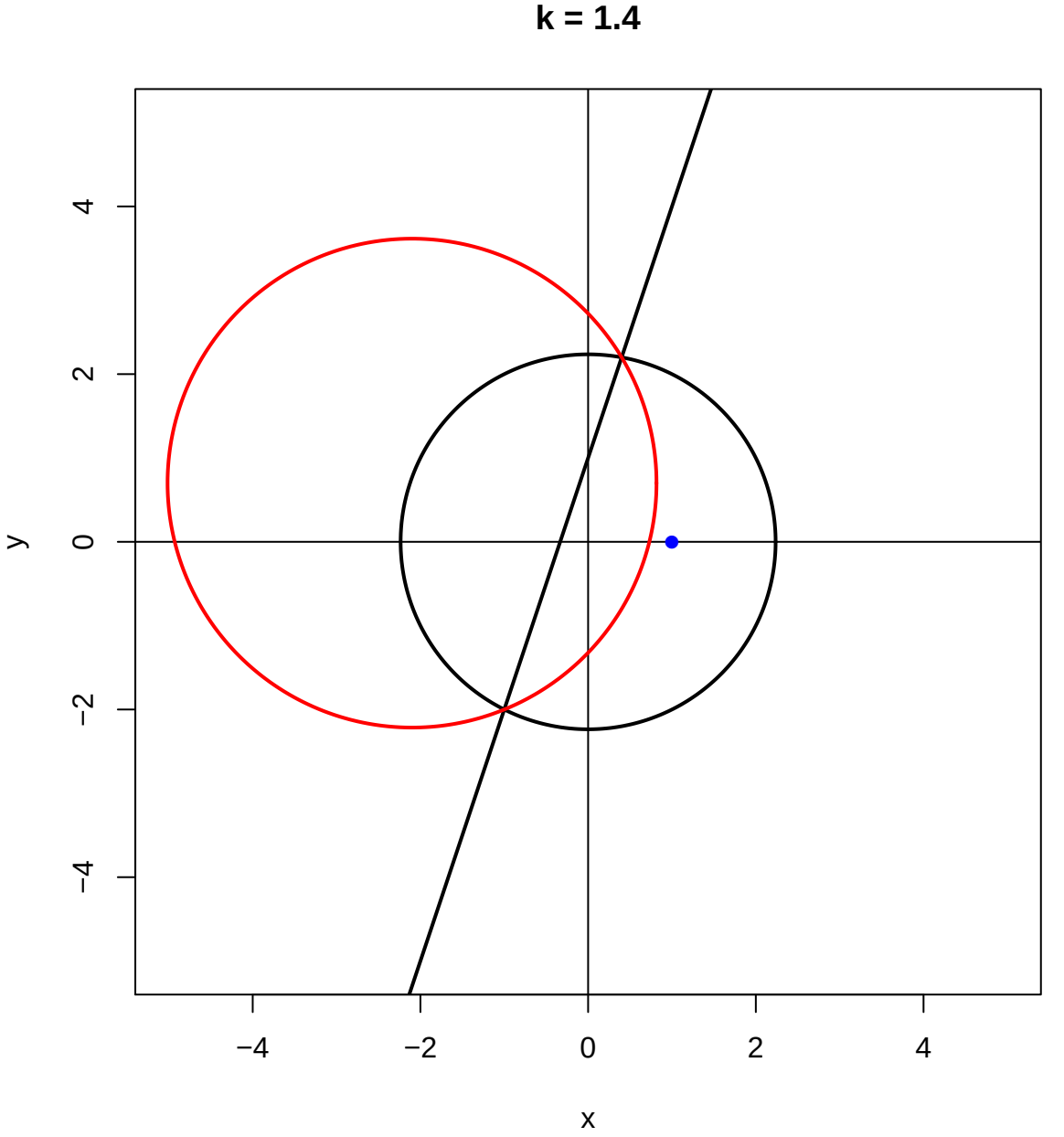

k = 1.15
y
x
4
2
0
−2
−4
−4
−2
0
2
4

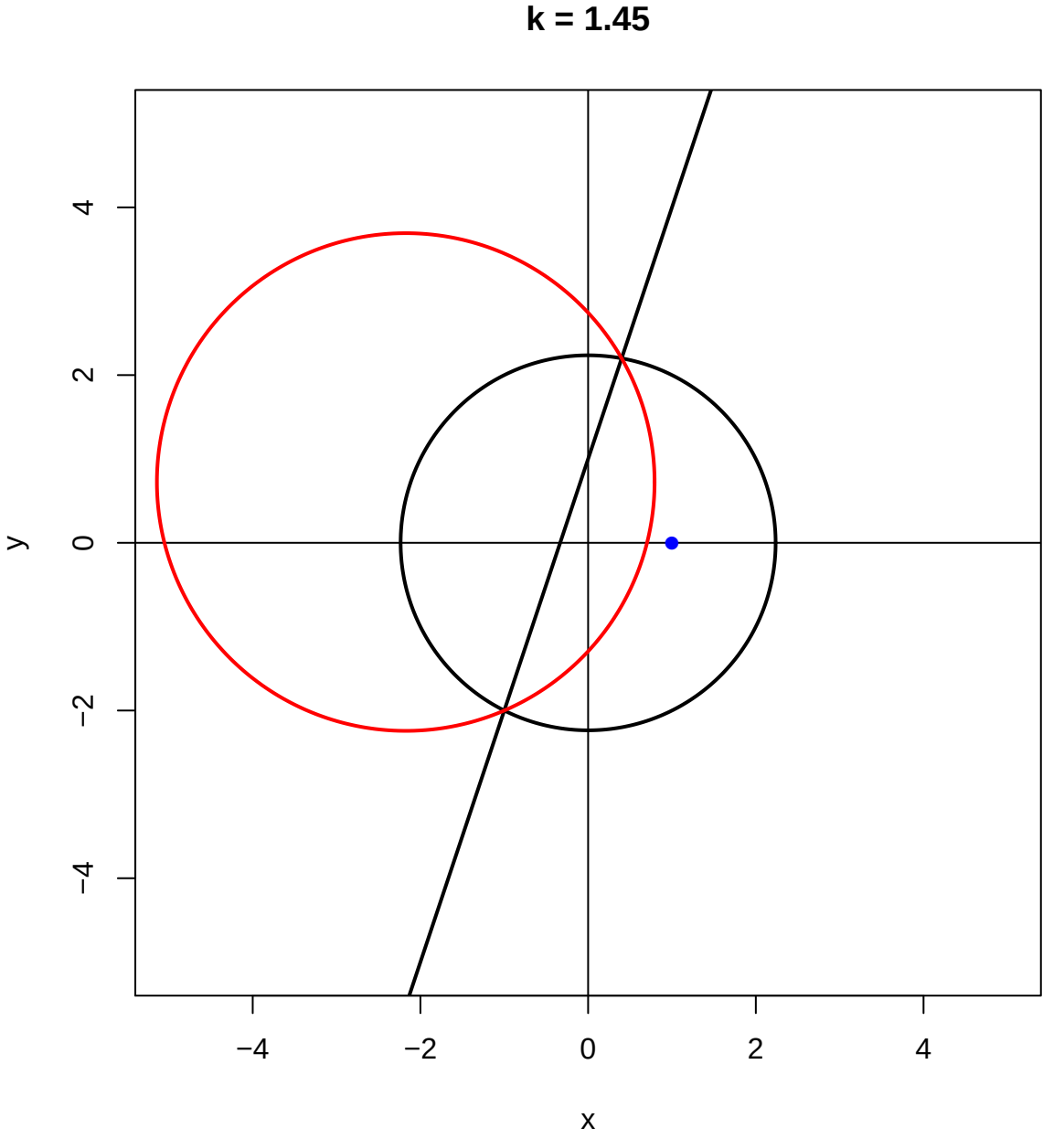

k = 1.2
y
x
4
2
0
−2
−4
−4
−2
0
2
4


k = 1.25
y
x
4
2
0
−2
−4
−4
−2
0
2
4


k = 1.3
y
x
4
2
0
−2
−4
−4
−2
0
2
4


k = 1.35
y
x
4
2
0
−2
−4
−4
−2
0
2
4


k = 1.4
y
x
4
2
0
−2
−4
−4
−2
0
2
4


k = 1.45
y
x
4
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−2
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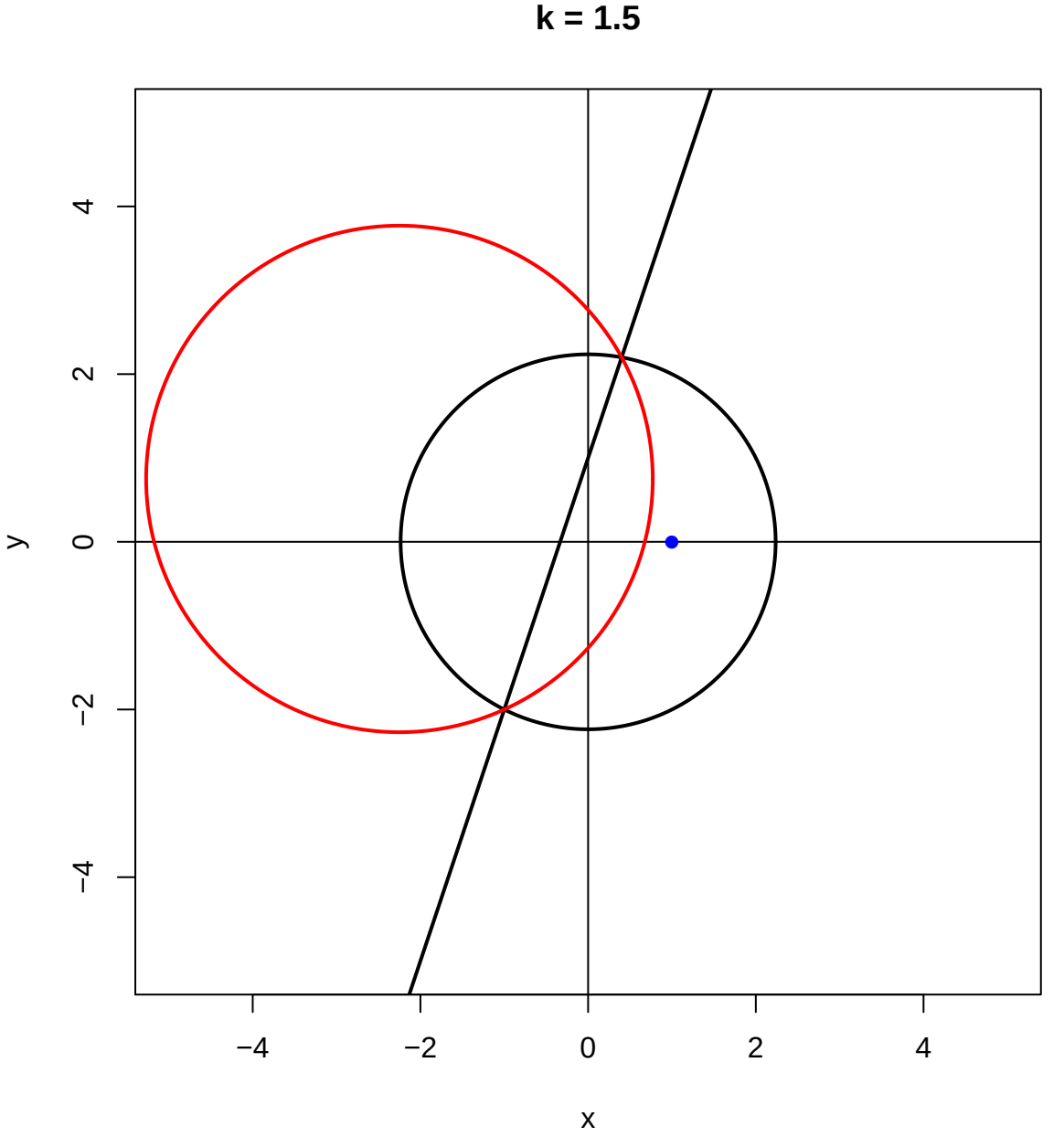
2
4


k = 1.5
y
x
4
2
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−2
−4
−4
−2
0
2
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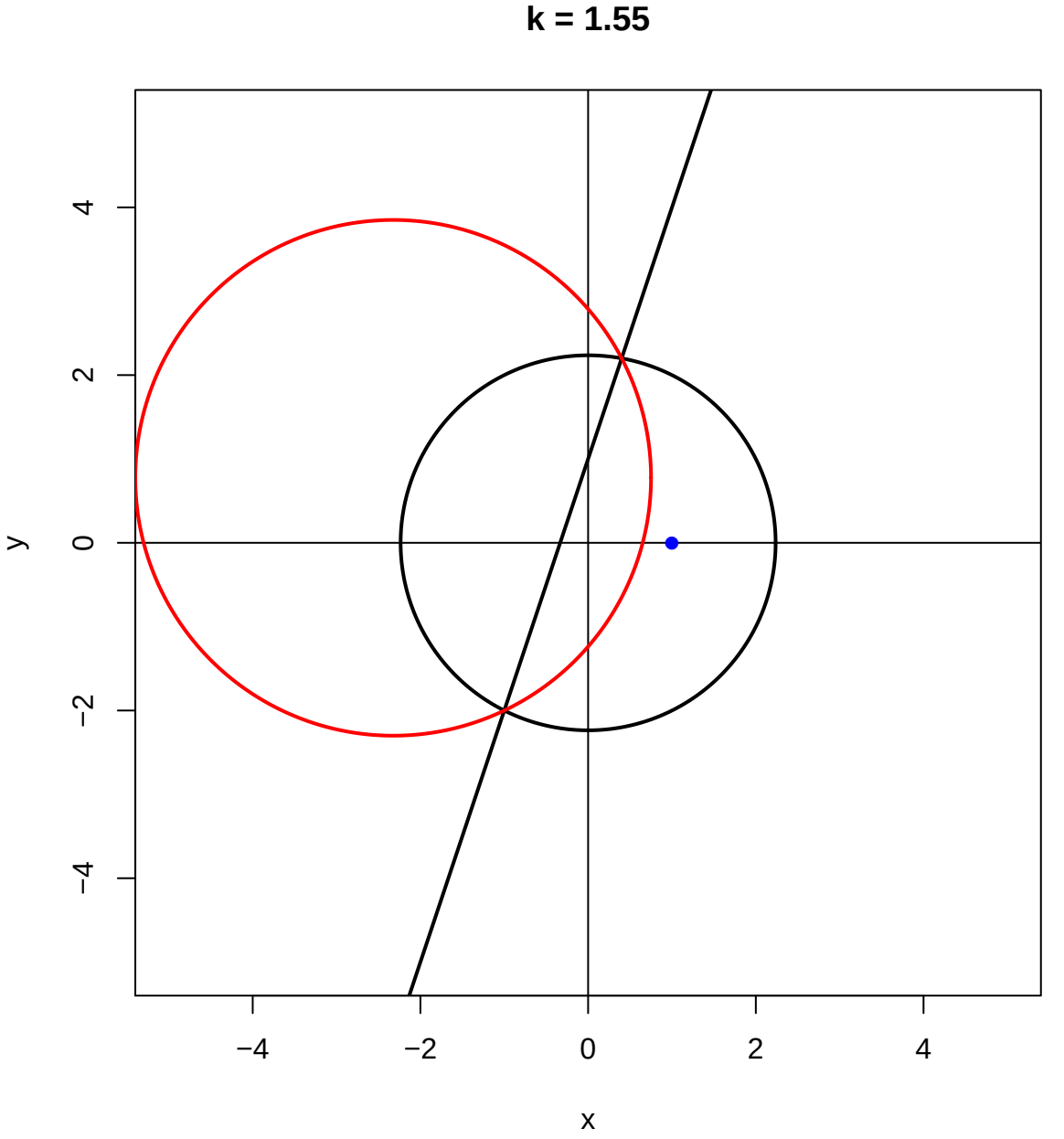
k = 1.55
y
x
4
2
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−2
−4
−4
−2
0
2
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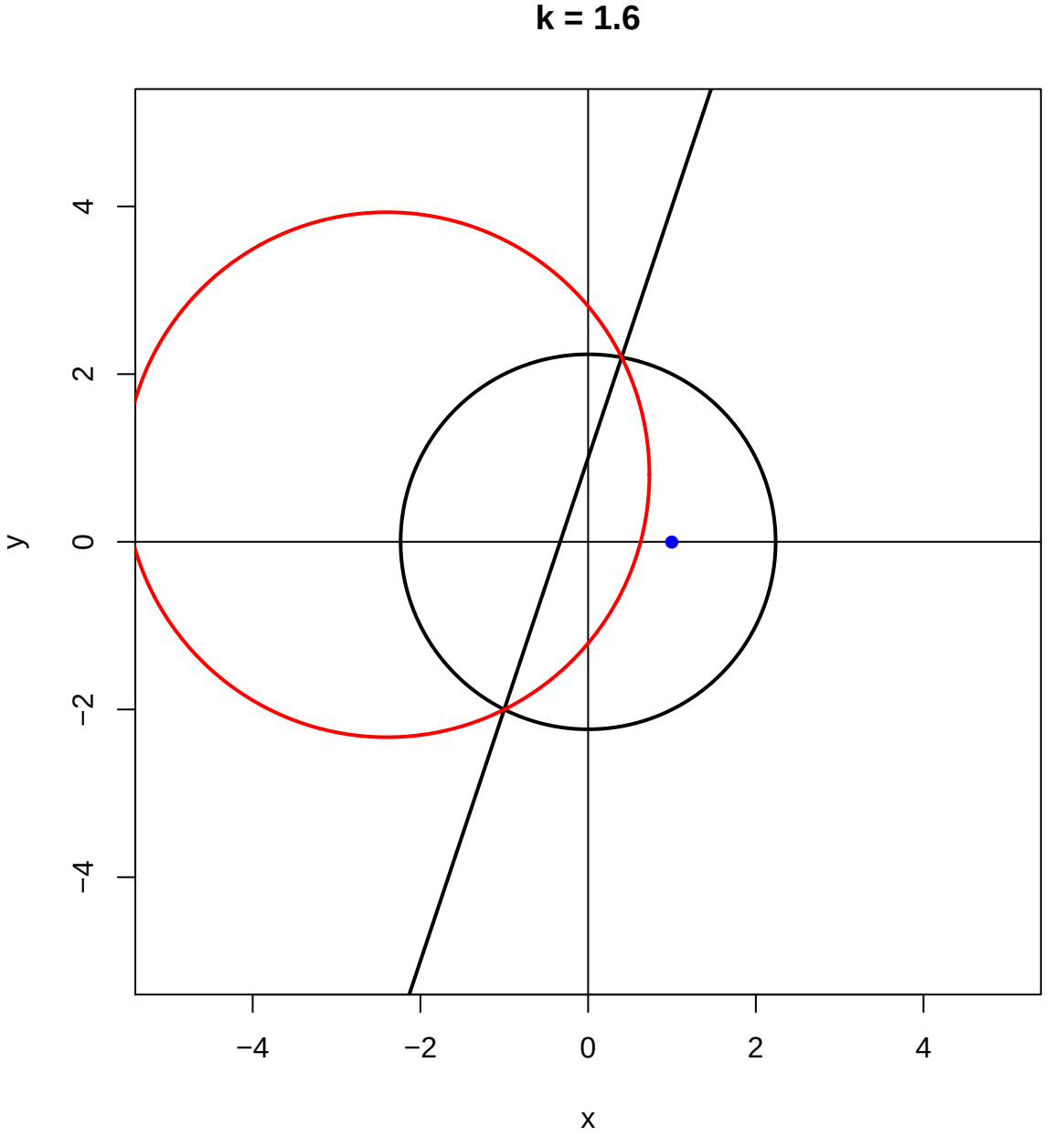
k = 1.6
y
x
4
2
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−2
0
2
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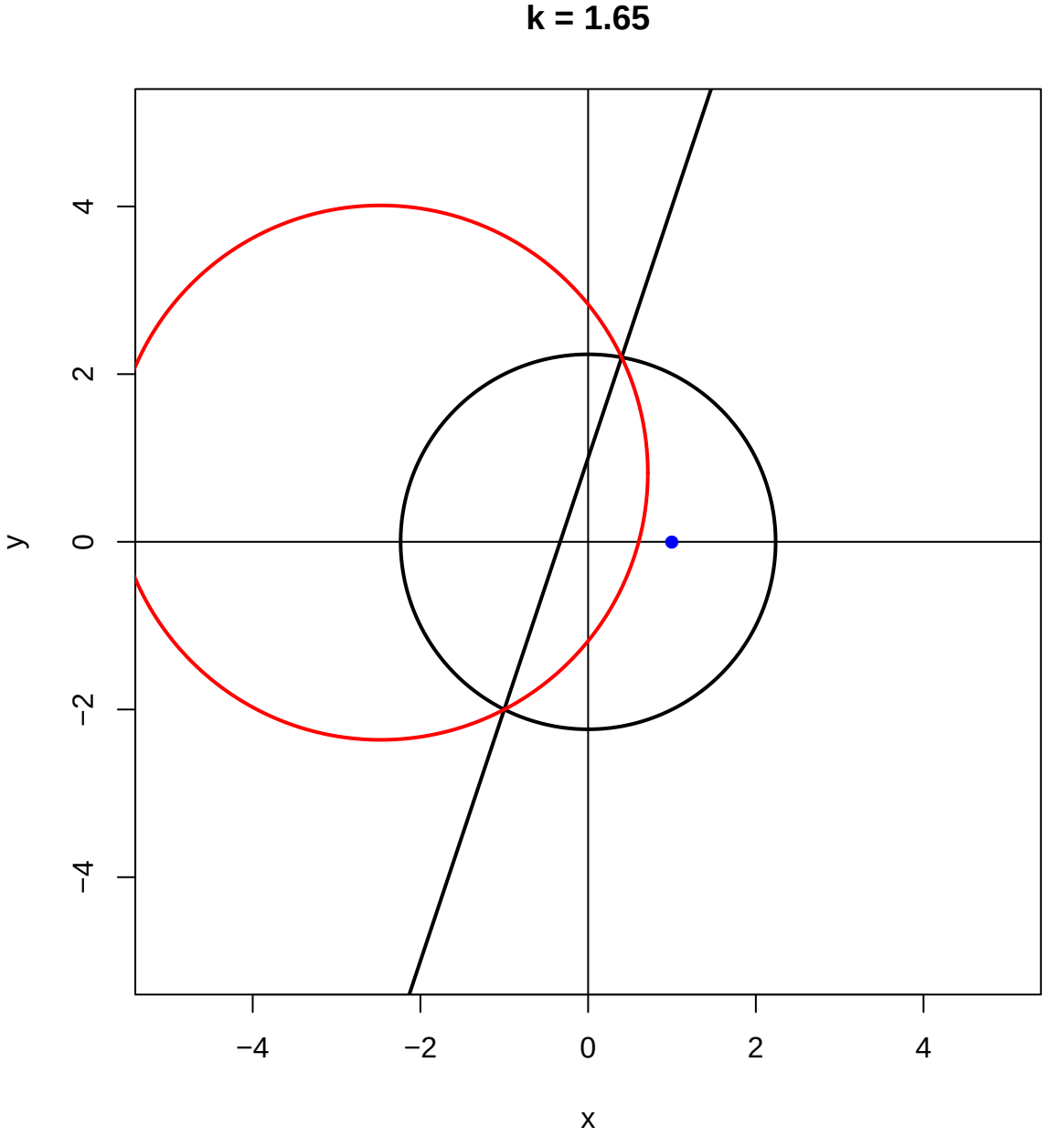
k = 1.65
y
x
4
2
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−2
−4
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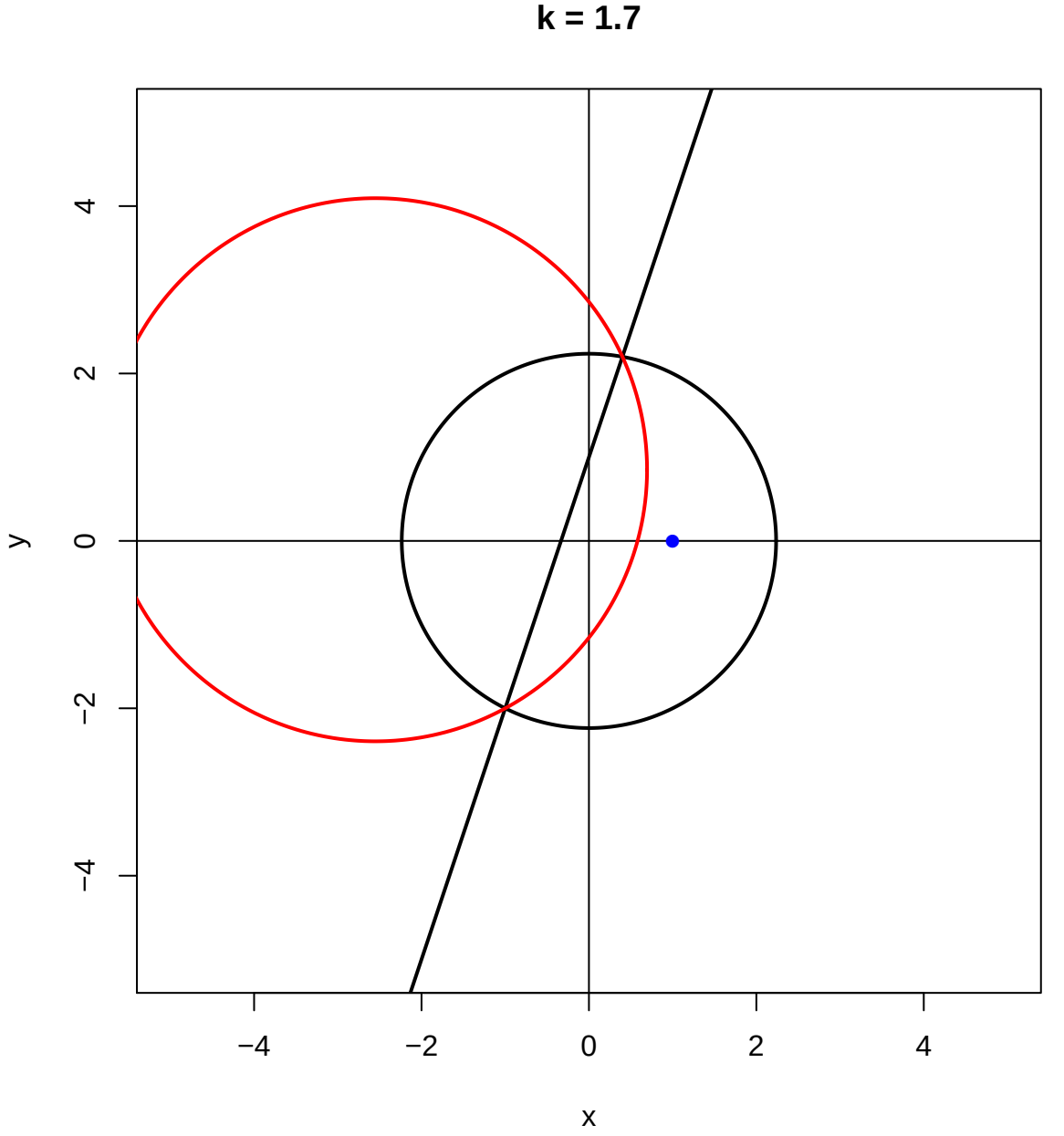
−2
0
2
4


k = 1.7
y
x
4
2
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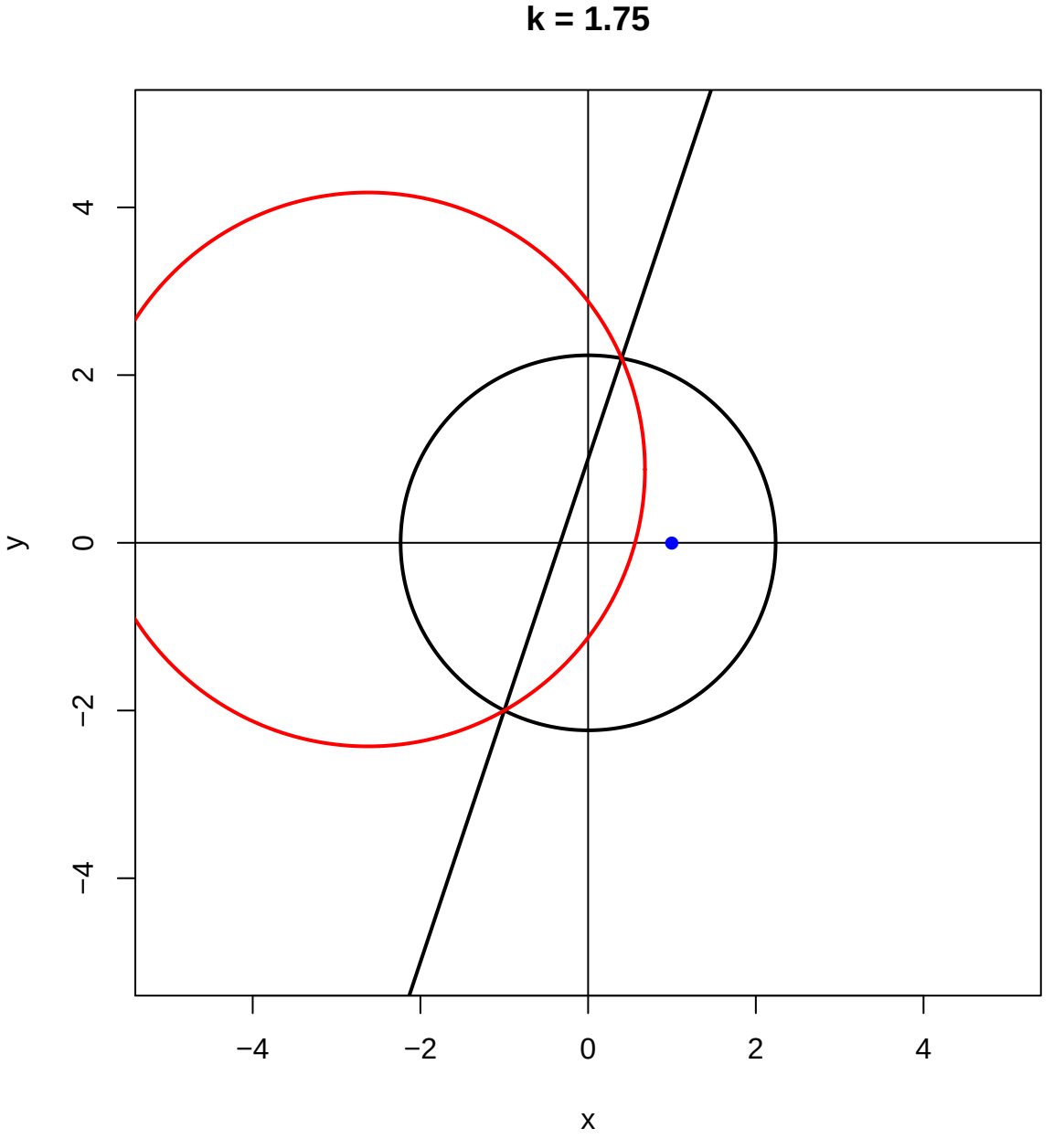
−2
0
2
4


k = 1.75
y
x
4
2
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−2
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2
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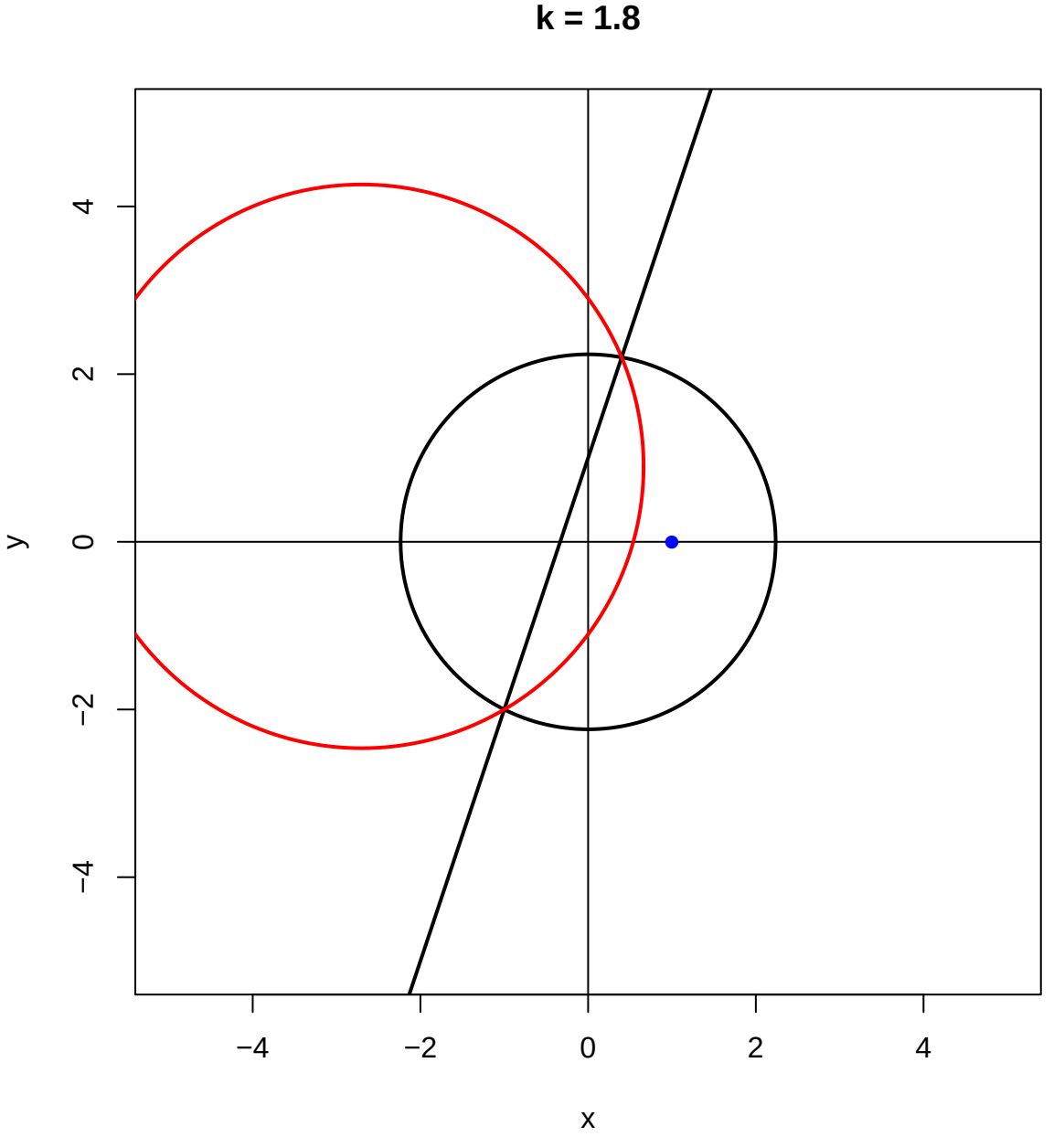
k = 1.8
y
x
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2
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−2
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2
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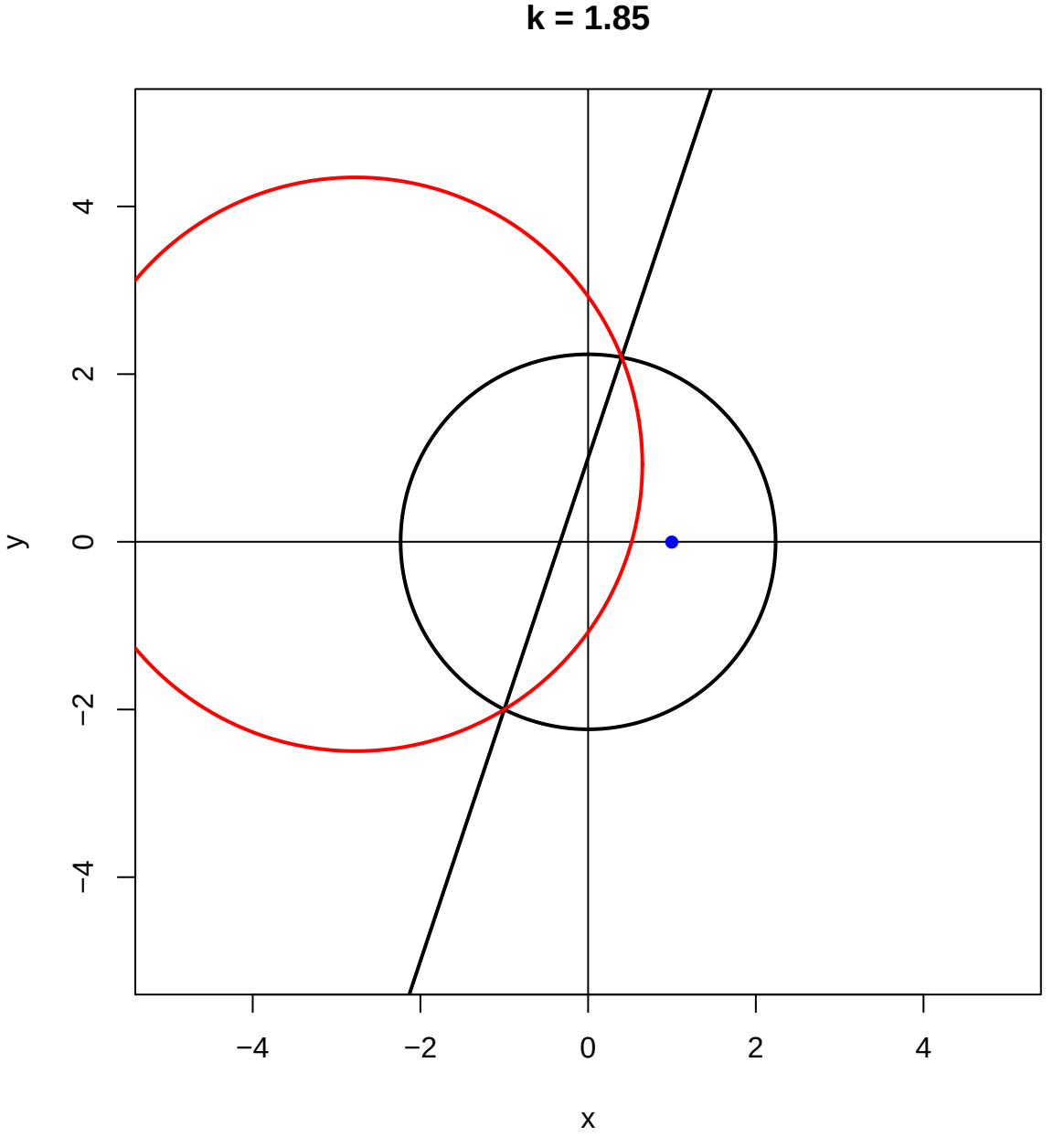
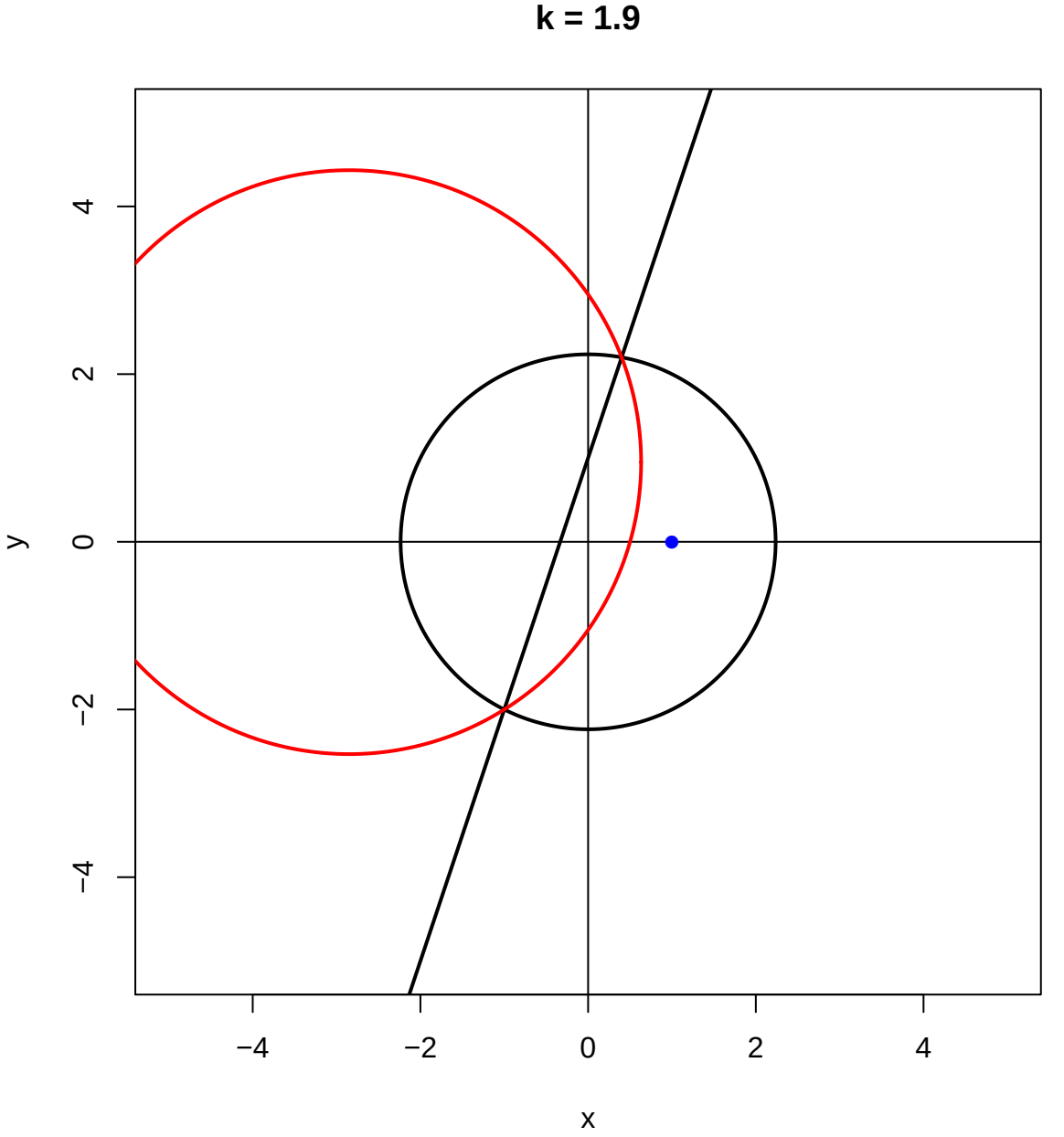
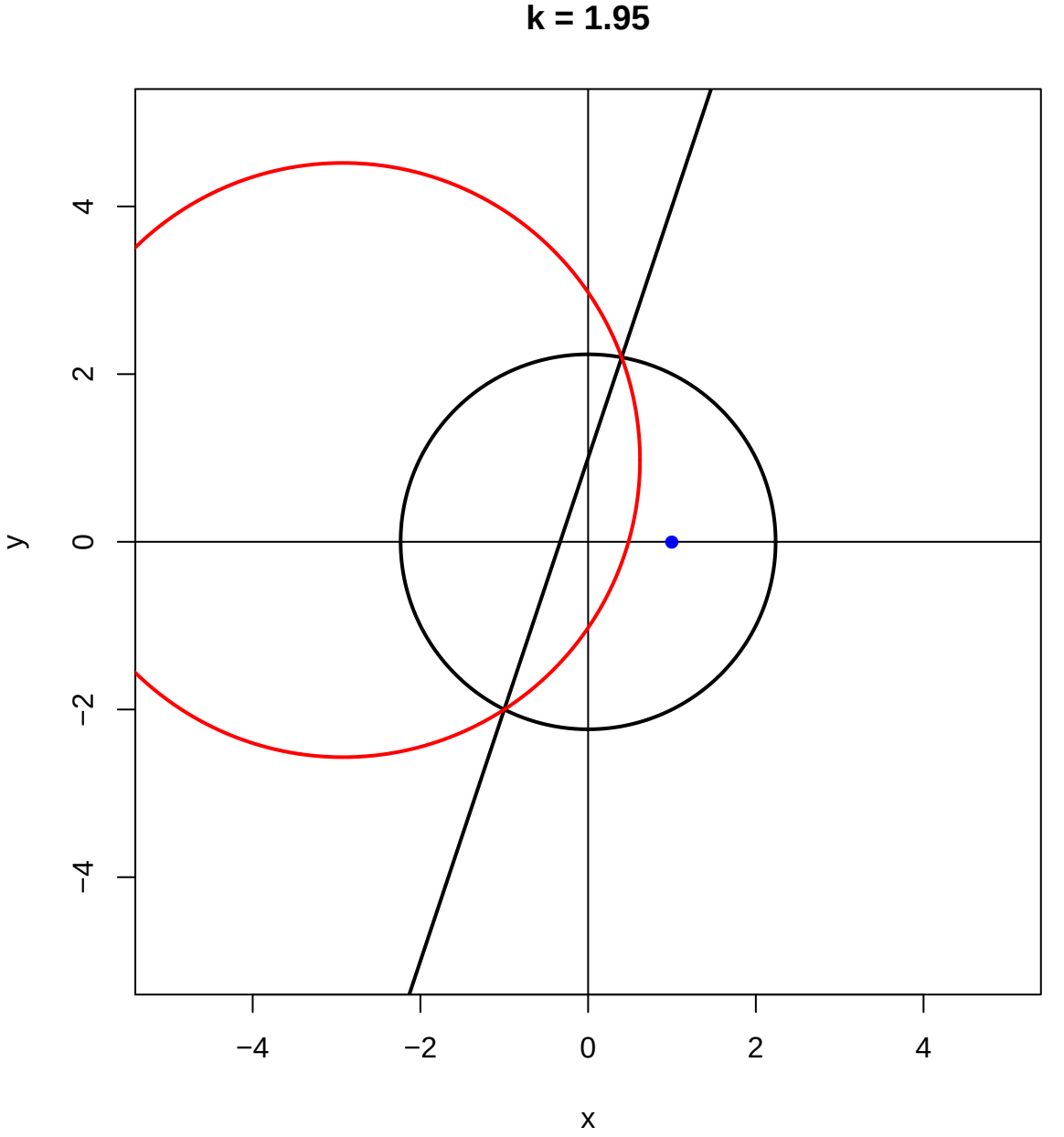

k = 1.85
y
x
4
2
0
−2
−4
−4
−2
0
2
4


k = 1.9
y
x
4
2
0
−2
−4
−4
−2
0
2
4


k = 1.95
y
x
4
2
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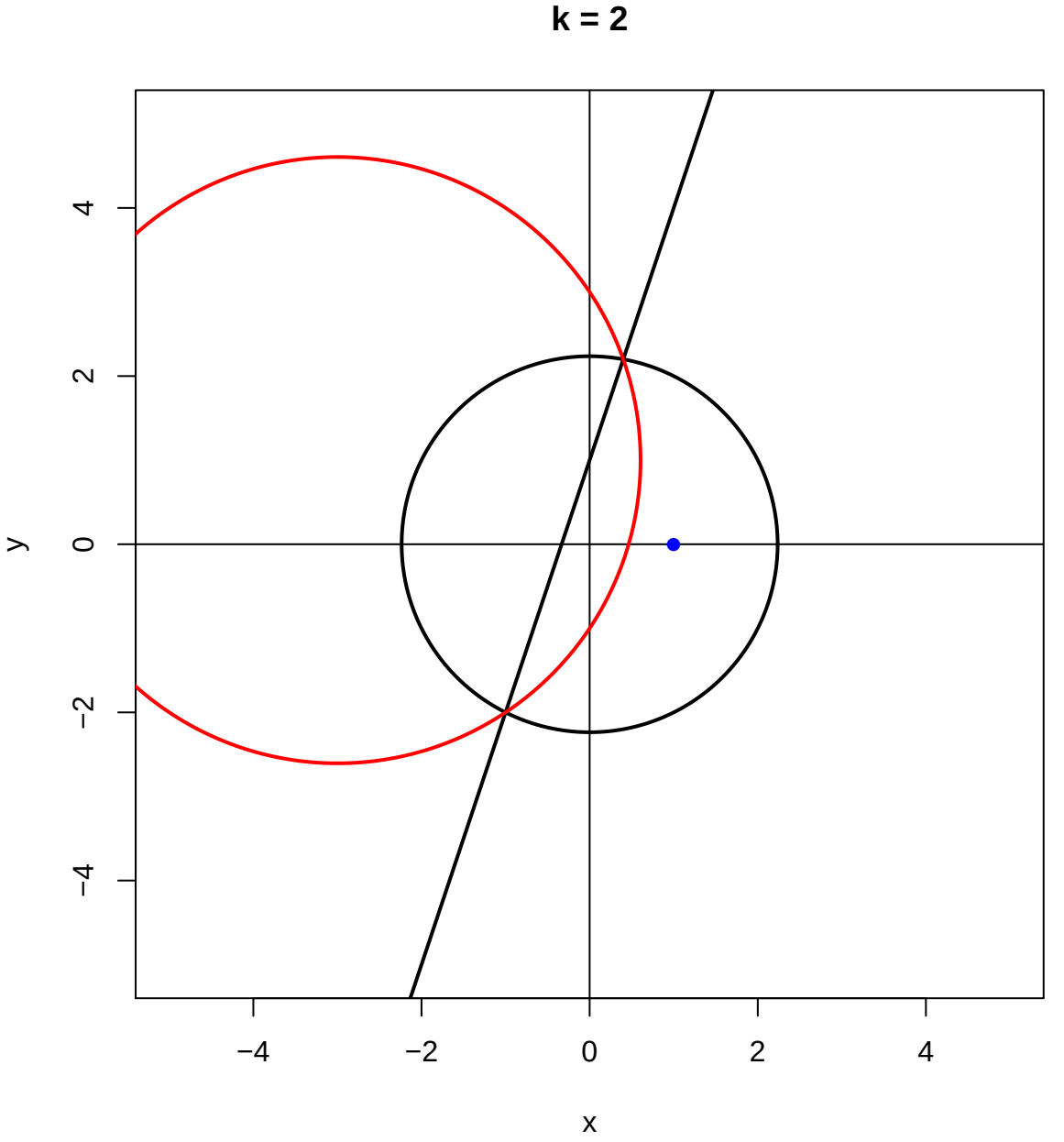
−2
−4
−4
−2
0
2
4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y
x
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−2
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2
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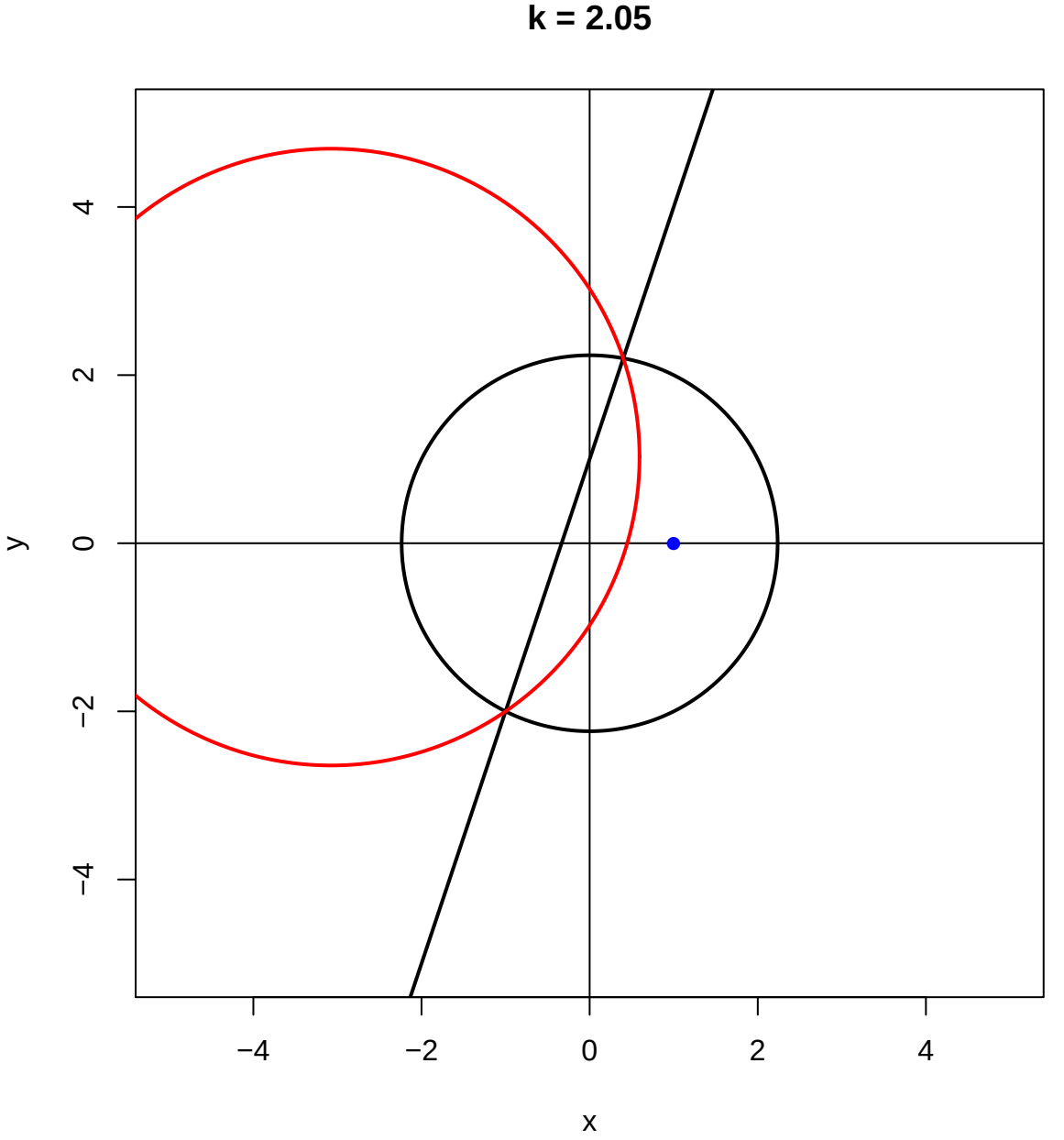
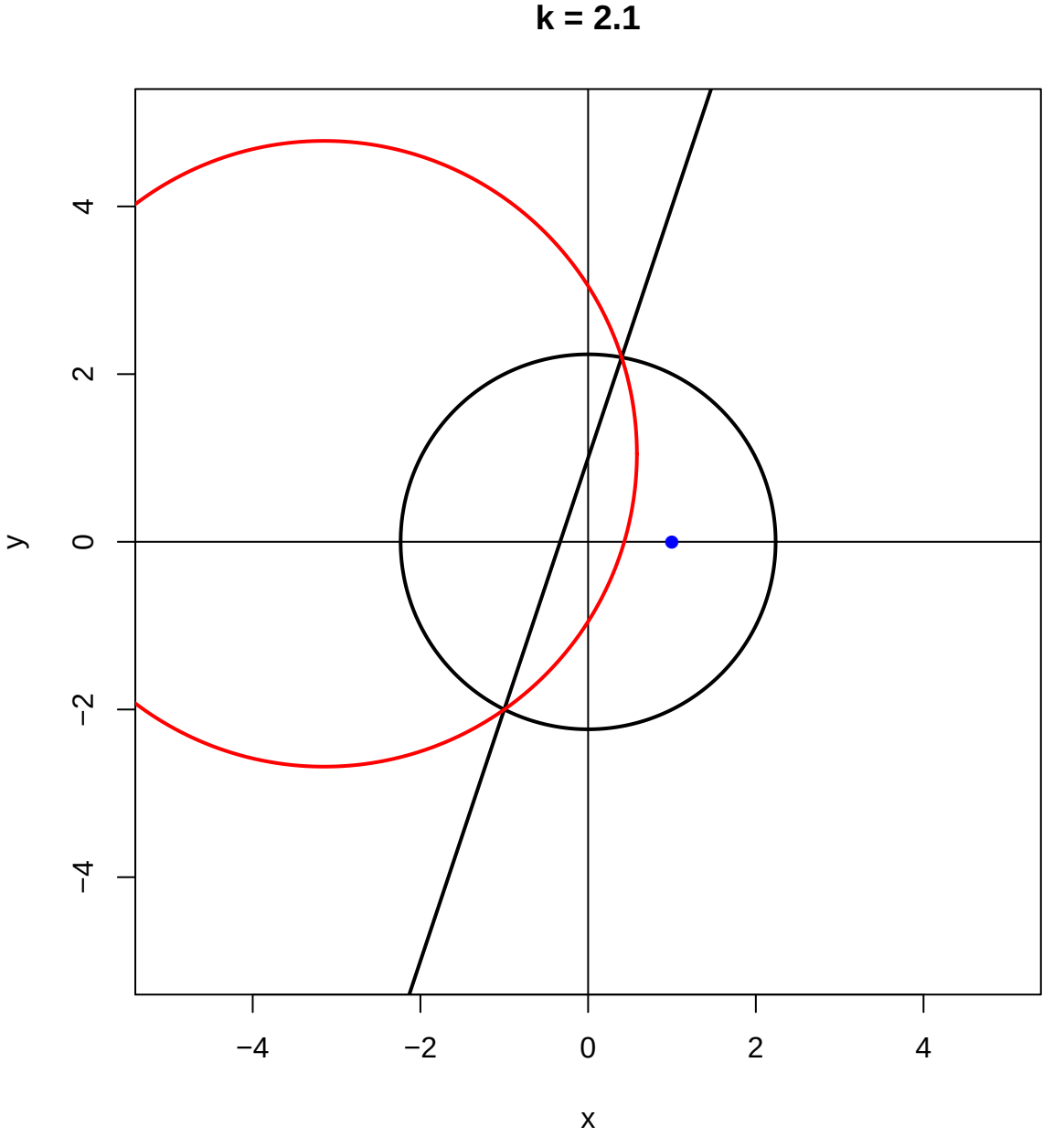

k = 2.05
y
x
4
2
0
−2
−4
−4
−2
0
2
4


k = 2.1
y
x
4
2
0
−2
−4
−4
−2
0
2
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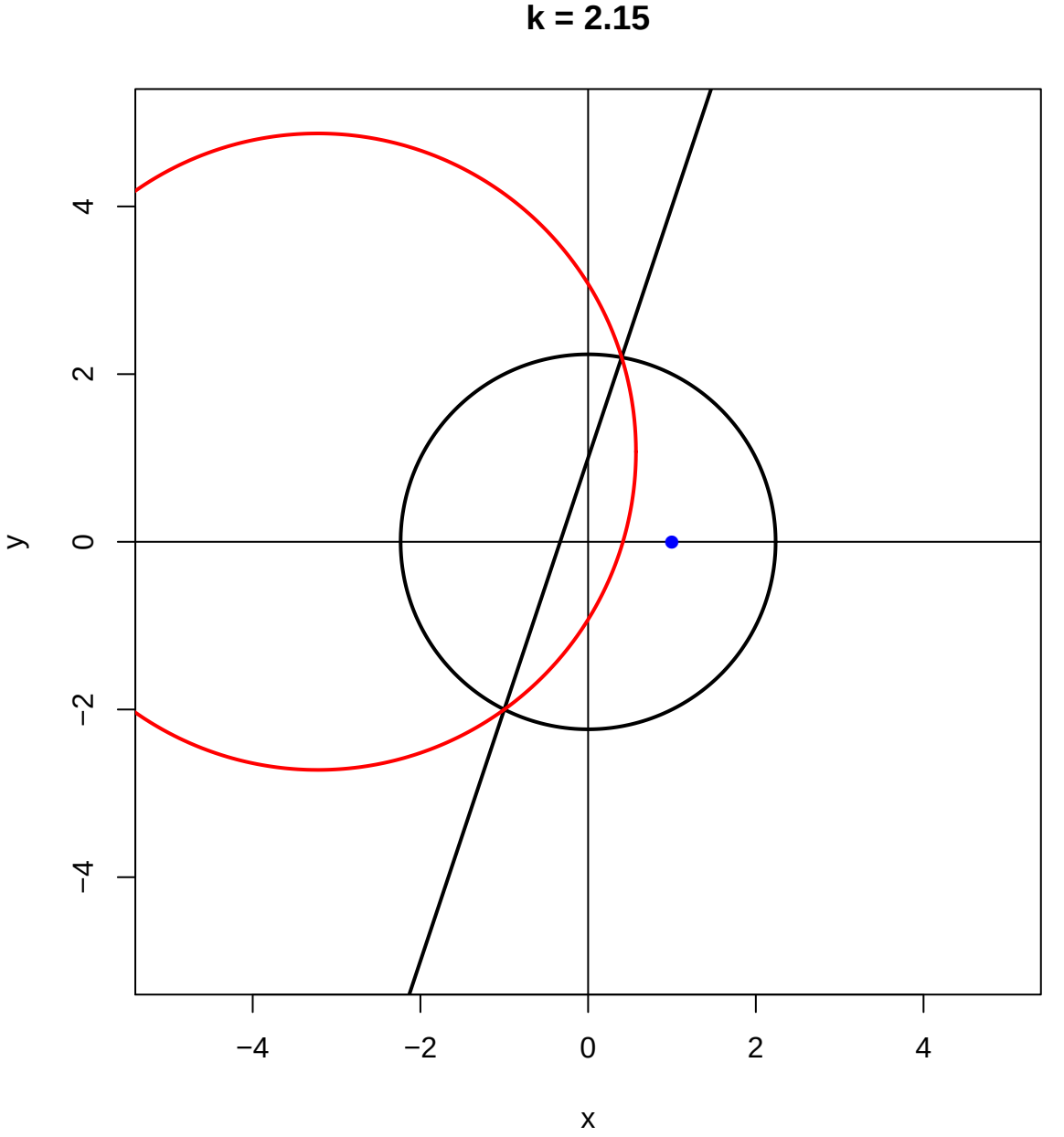
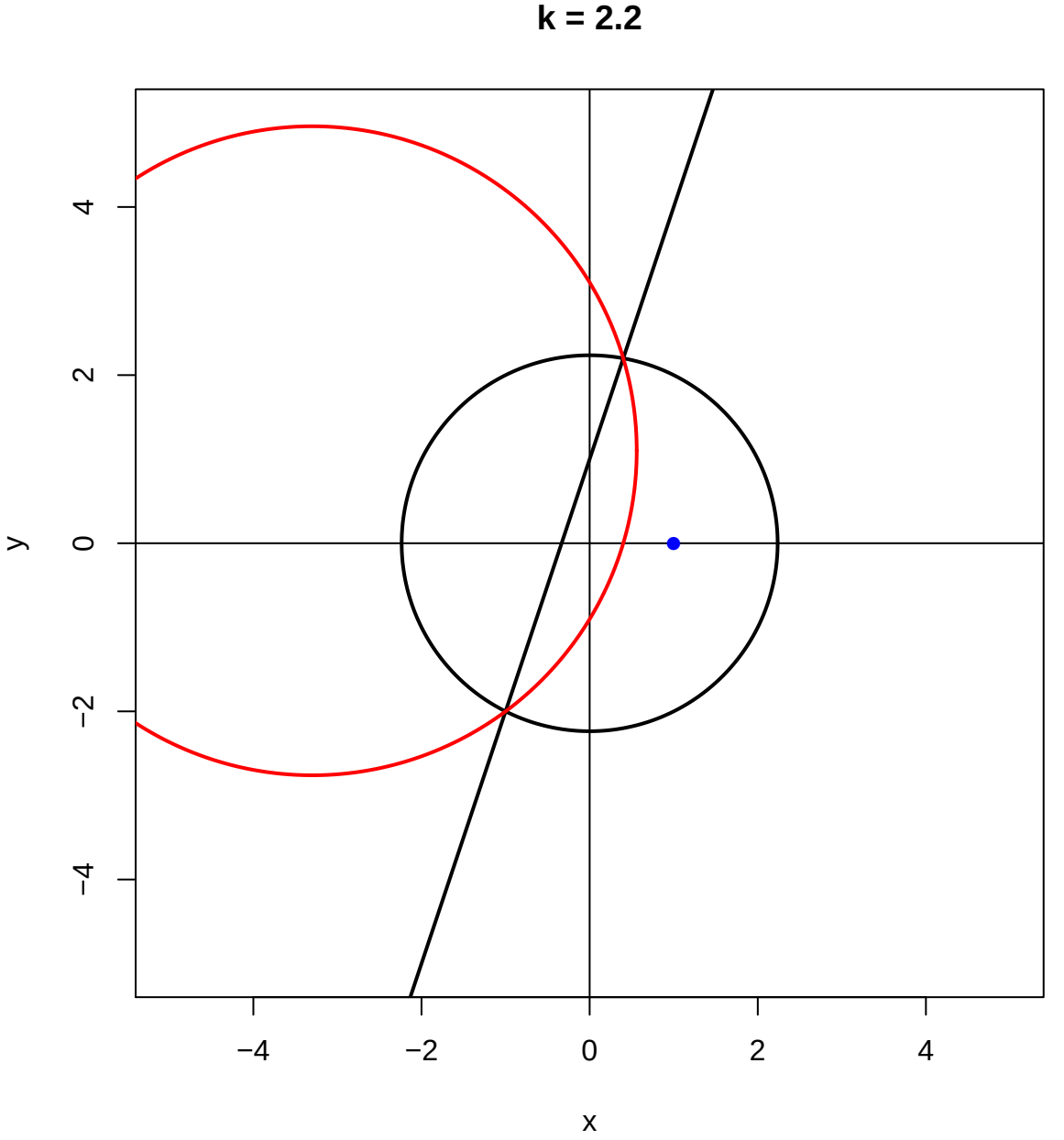
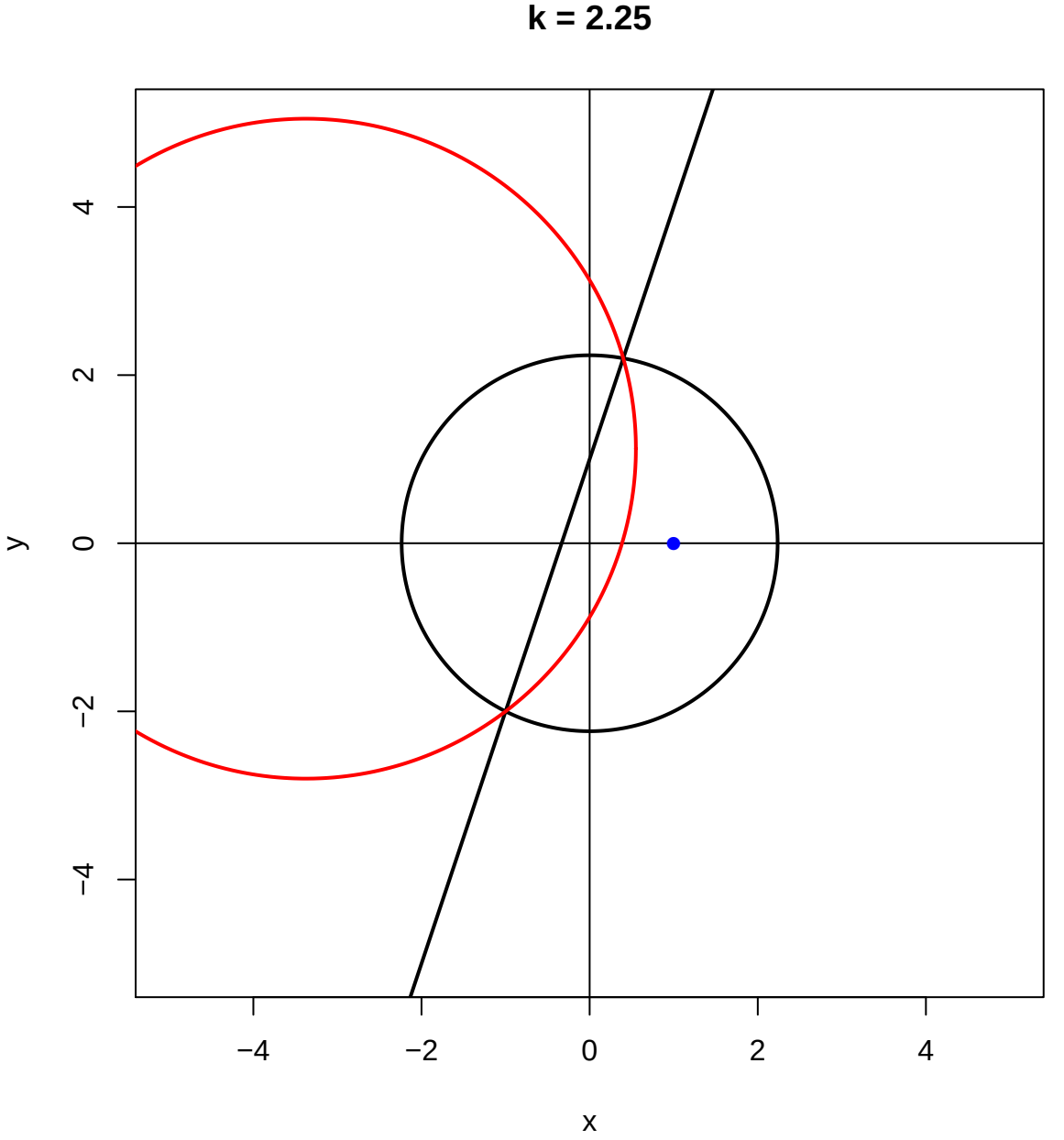
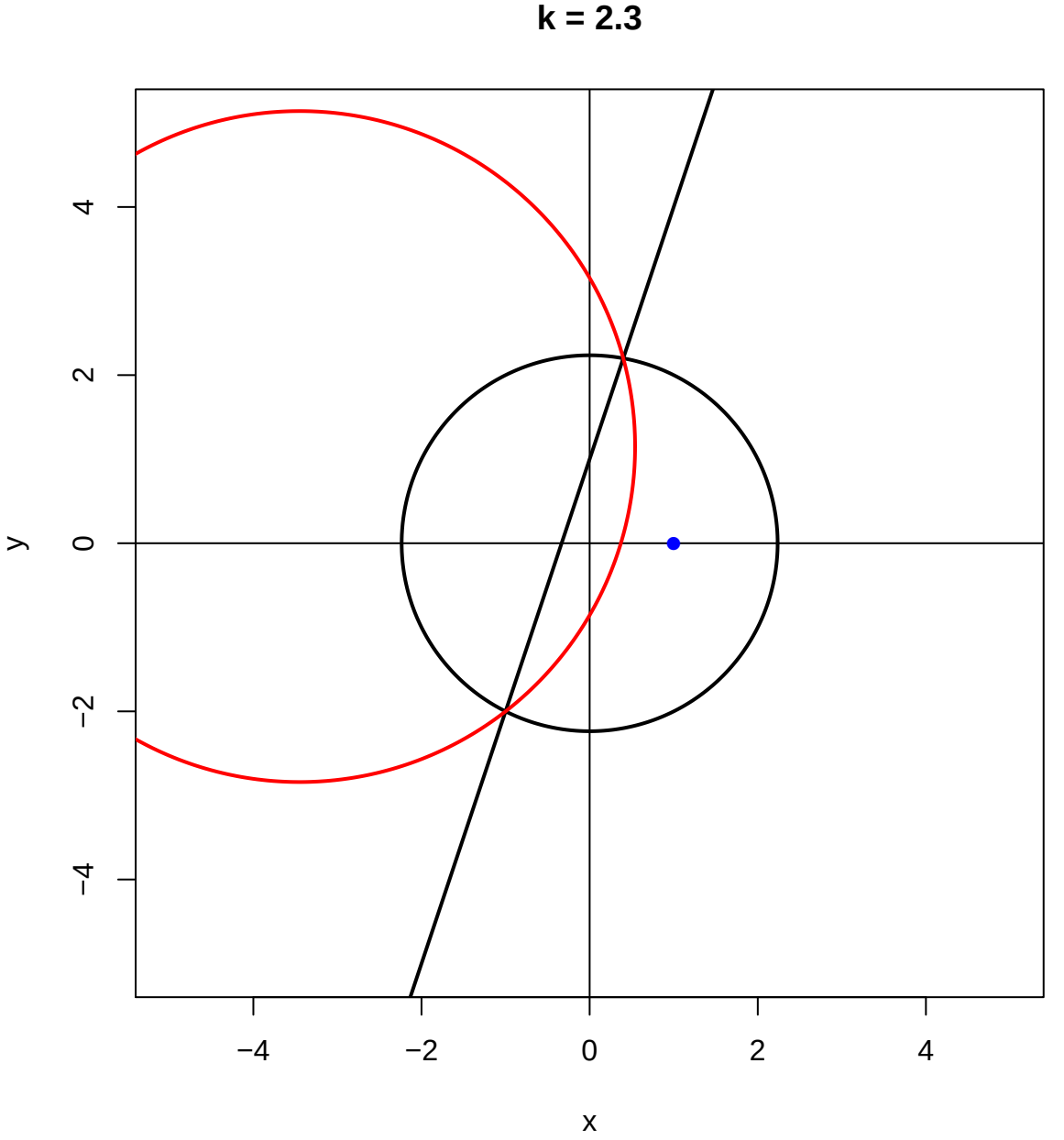
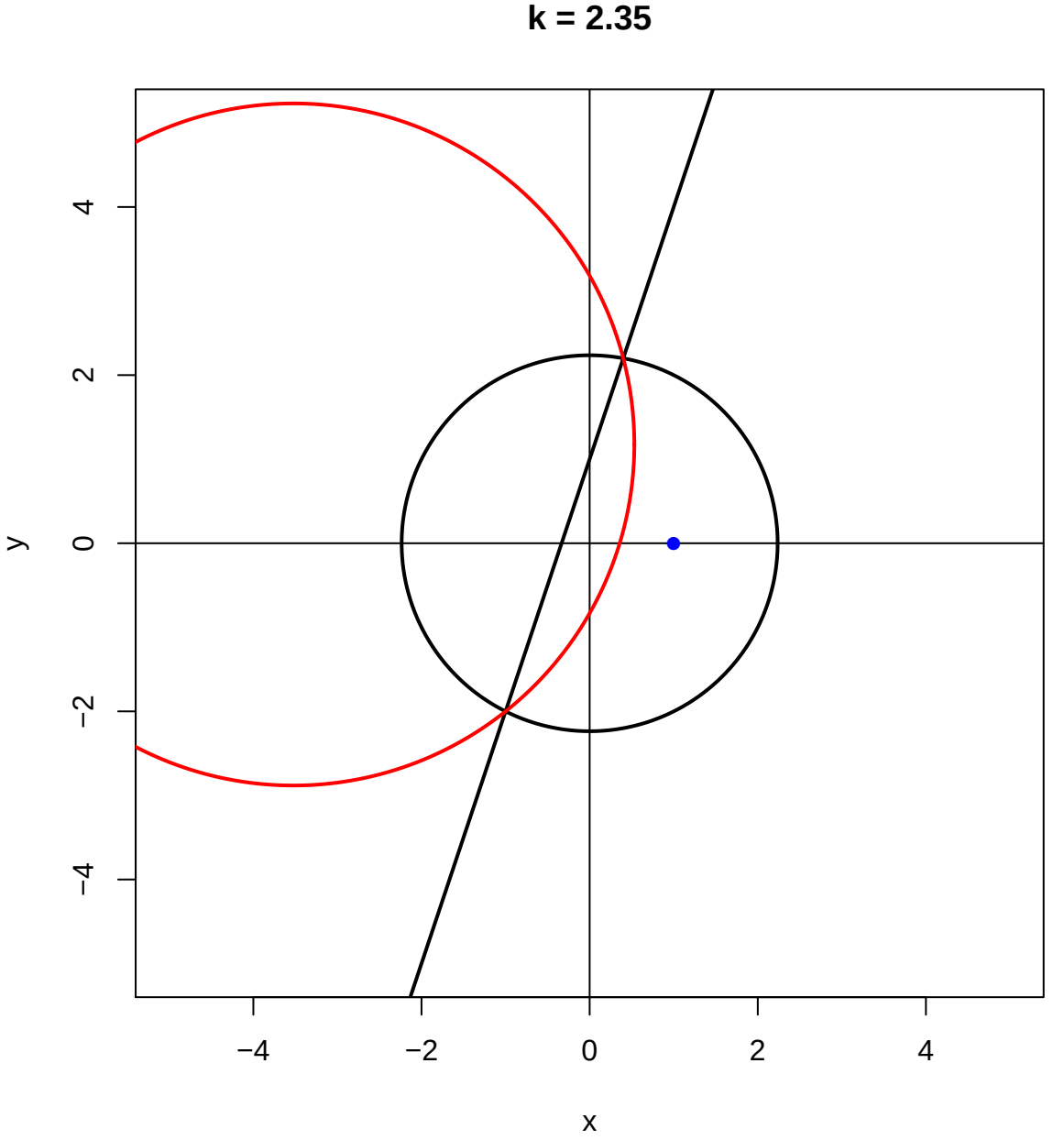
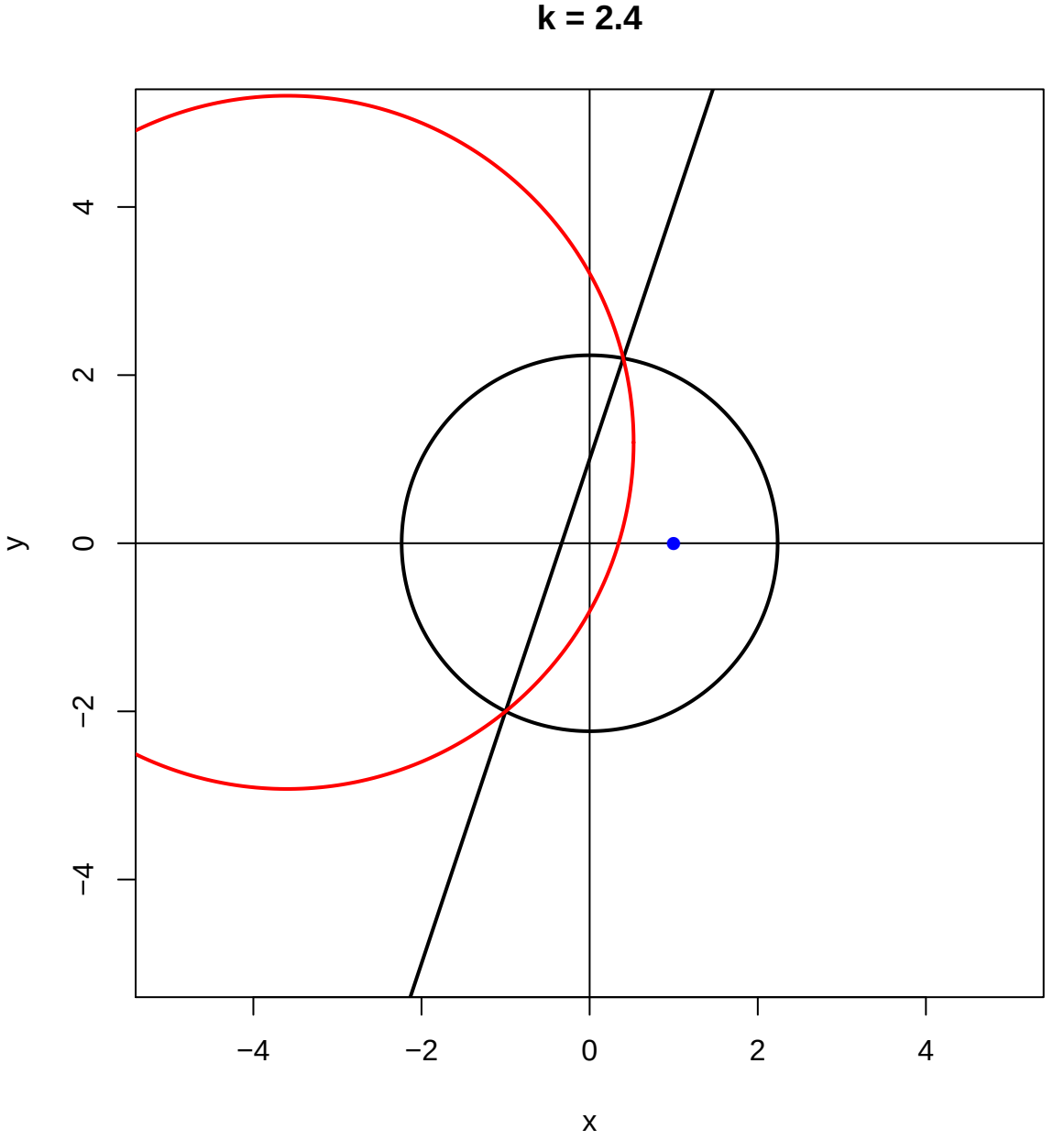

k = 2.15
y
x
4
2
0
−2
−4
−4
−2
0
2
4

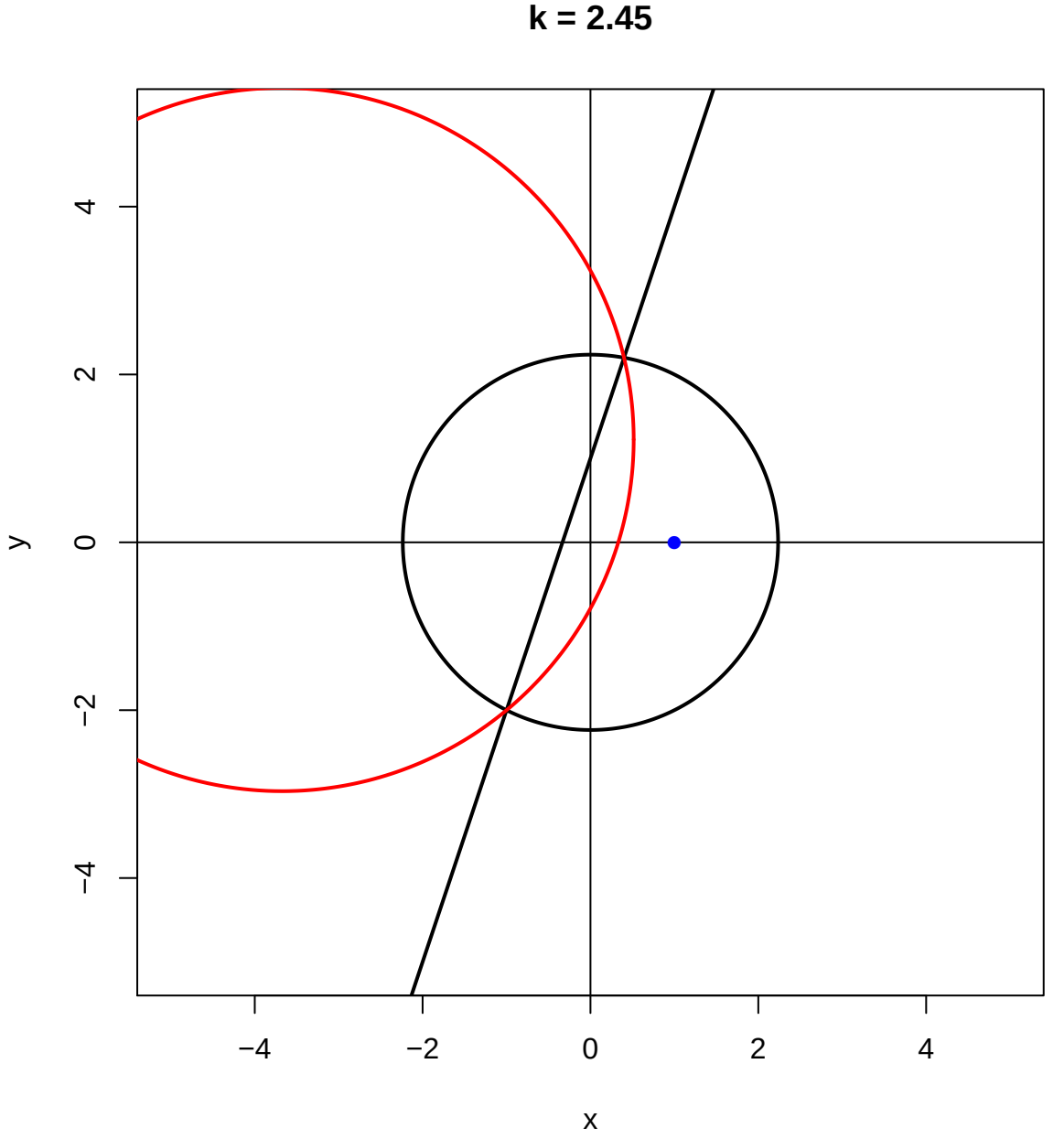

k = 2.2
y
x
4
2
0
−2
−4
−4
−2
0
2
4

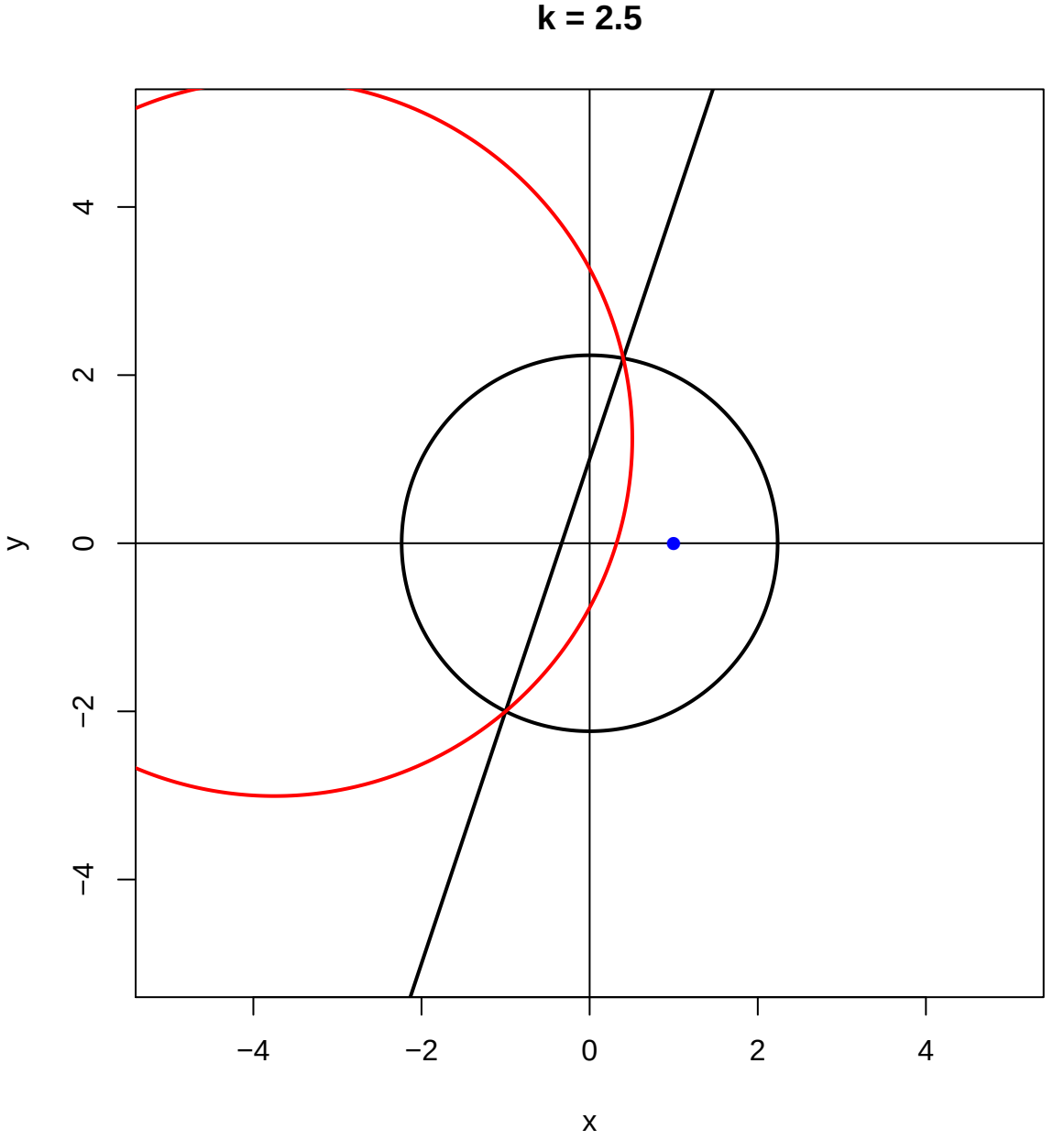

k = 2.25
y
x
4
2
0
−2
−4
−4
−2
0
2
4


k = 2.3
y
x
4
2
0
−2
−4
−4
−2
0
2
4


k = 2.35
y
x
4
2
0
−2
−4
−4
−2
0
2
4


k = 2.4
y
x
4
2
0
−2
−4
−4
−2
0
2
4


k = 2.45
y
x
4
2
0
−2
−4
−4
−2
0
2
4


k = 2.5
y
x
4
2
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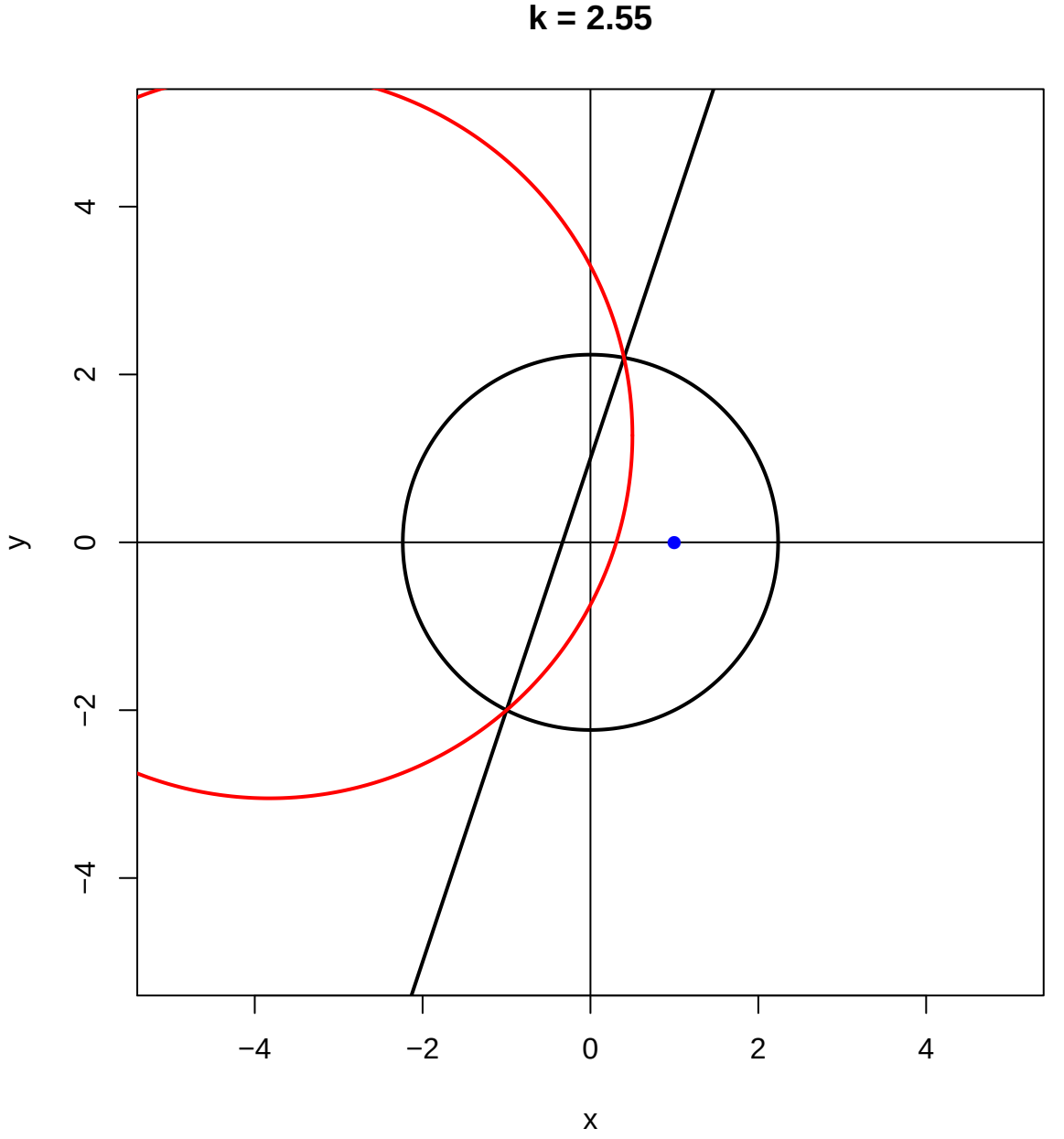
−2
−4
−4
−2
0
2
4


k = 2.55
y
x
4
2
0
−2
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−4
−2
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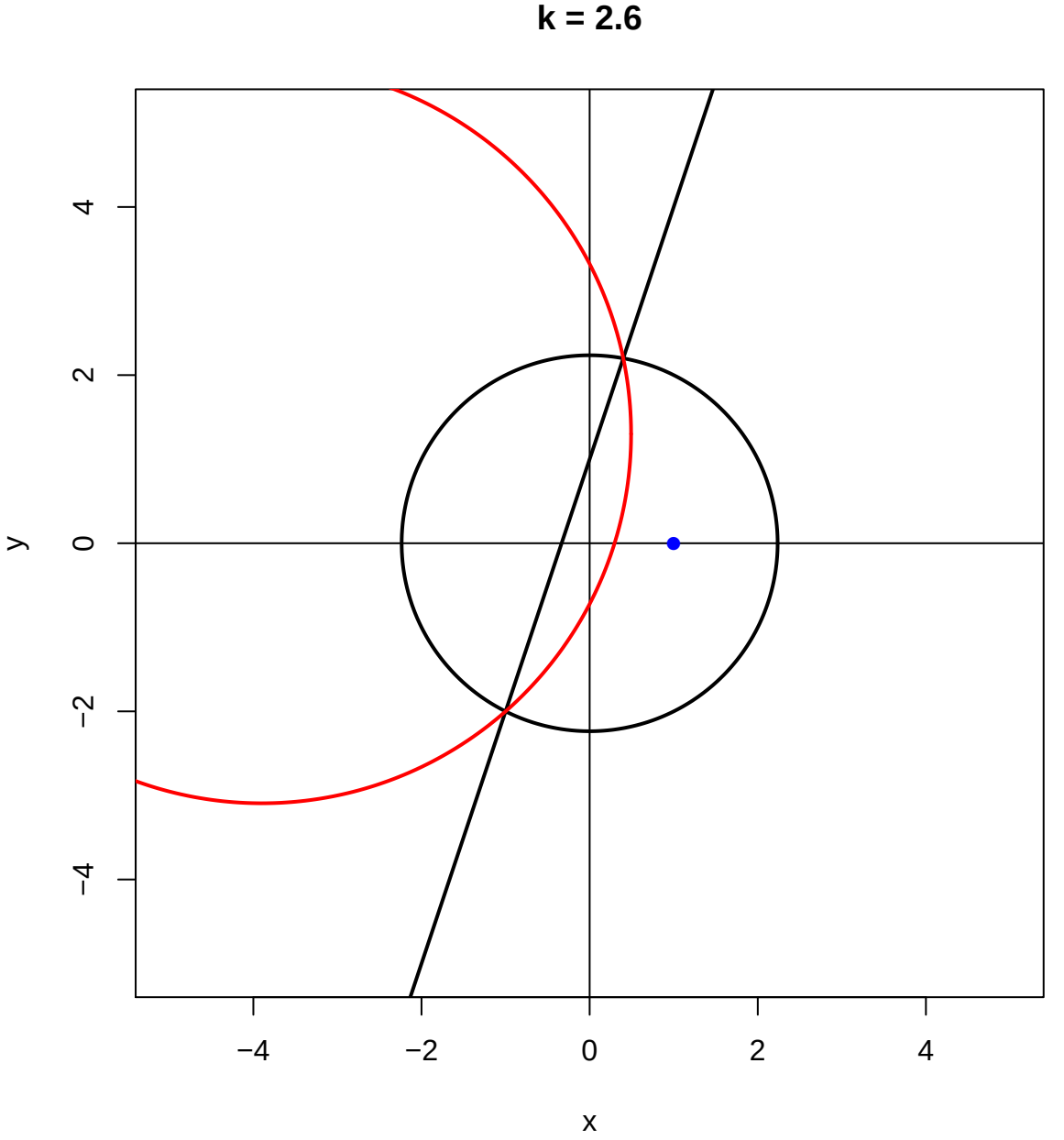
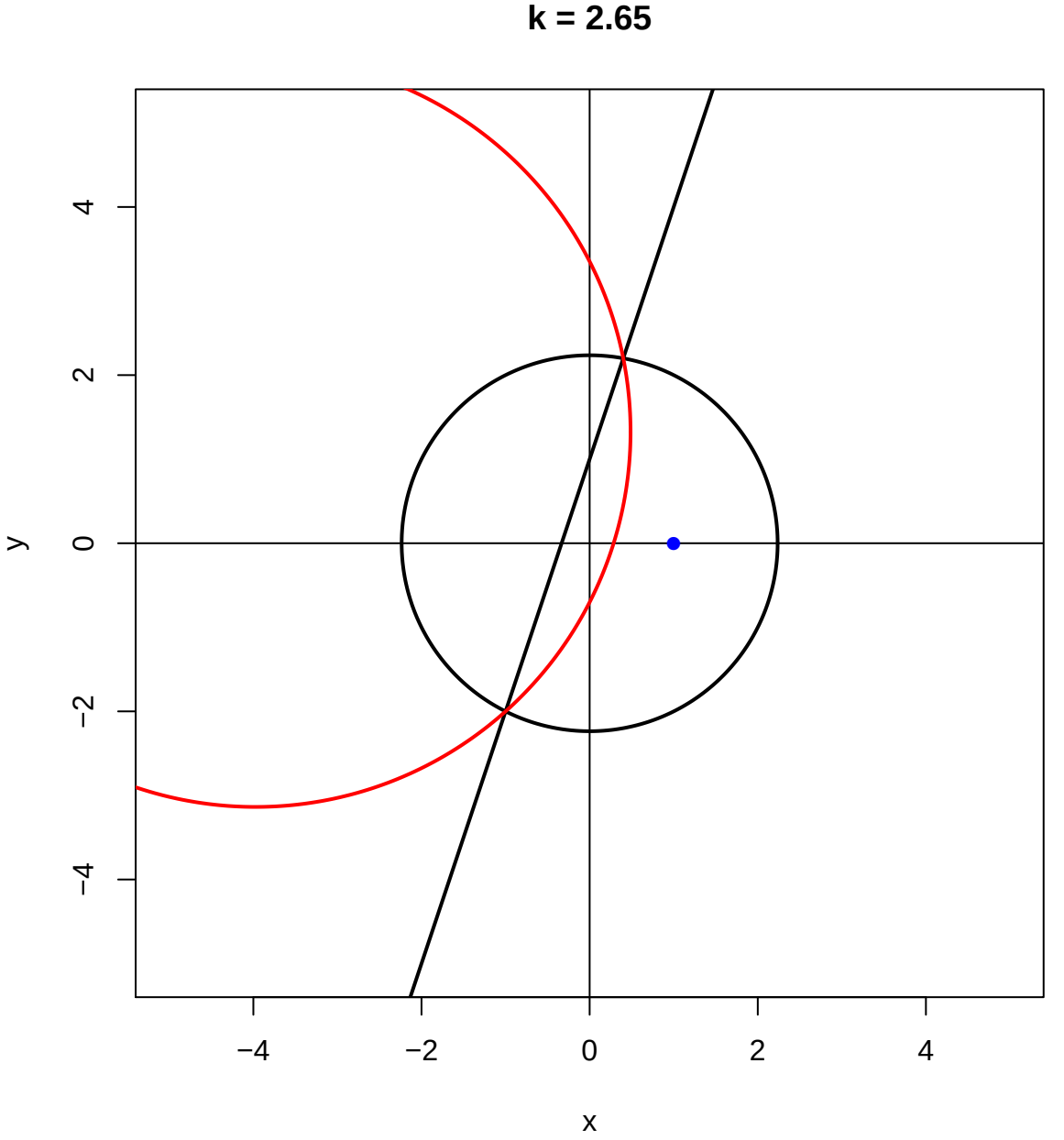
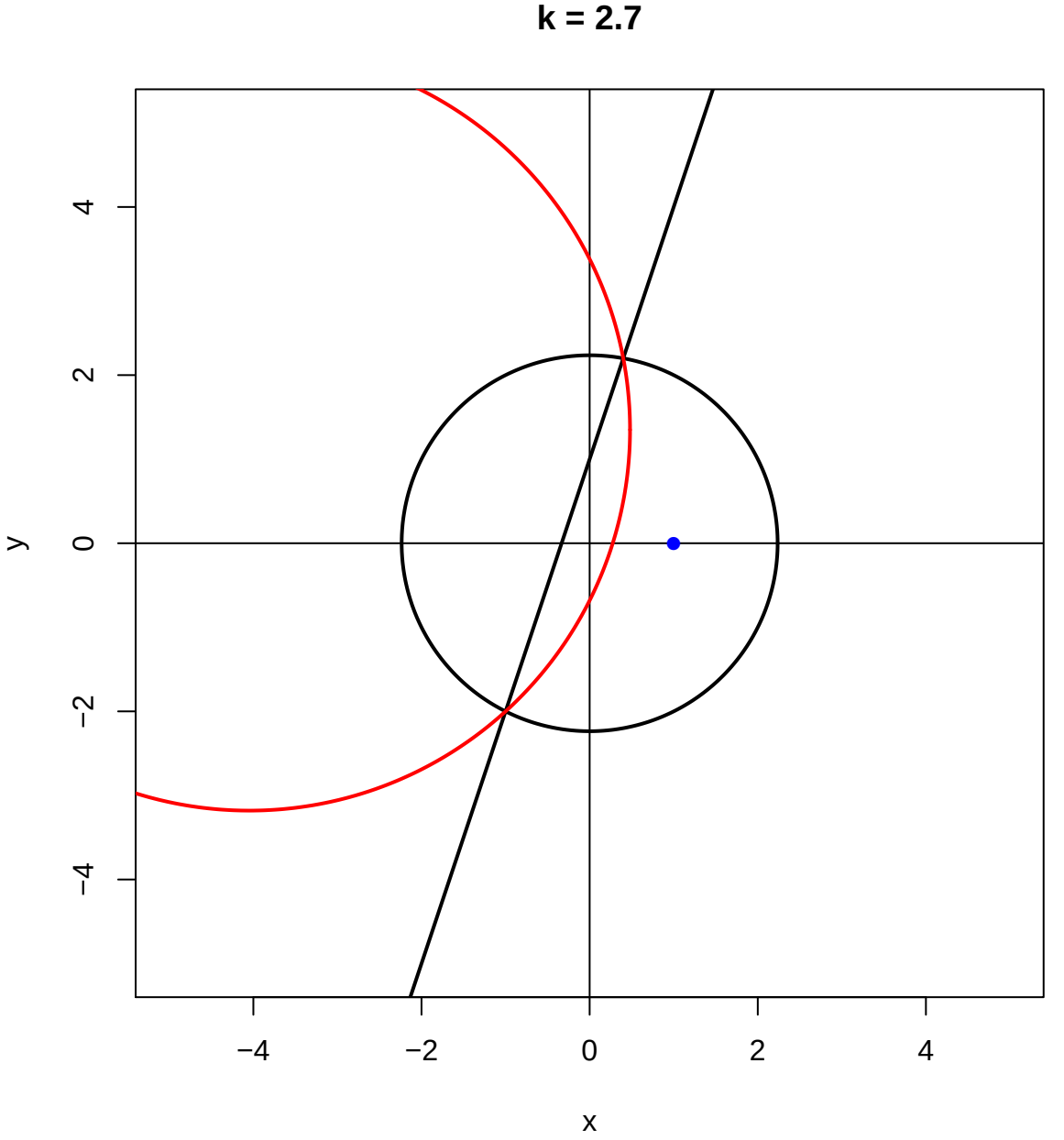
2
4


k = 2.6
y
x
4
2
0
−2
−4
−4
−2
0
2
4


k = 2.65
y
x
4
2
0
−2
−4
−4
−2
0
2
4


k = 2.7
y
x
4
2
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−2
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2
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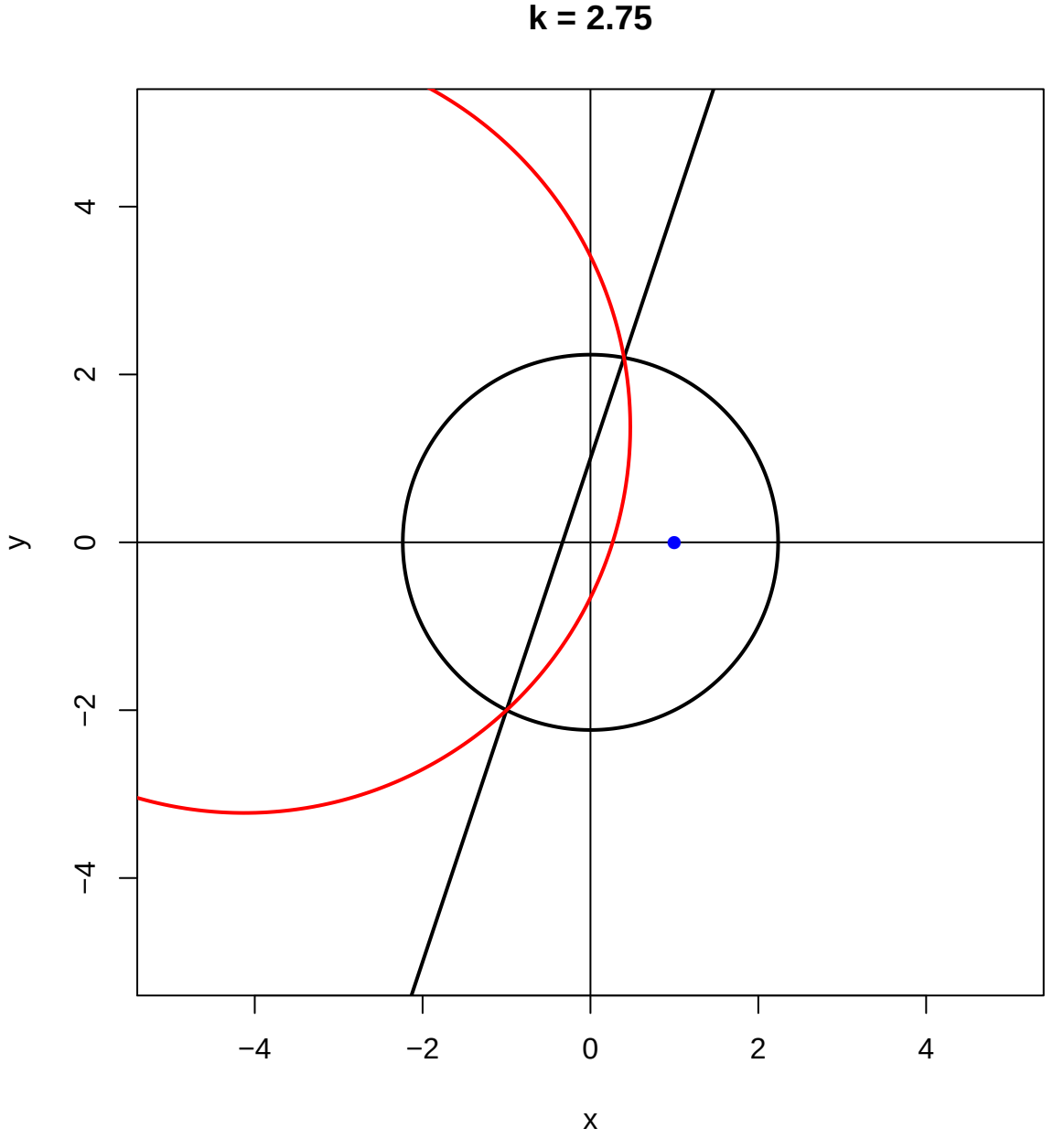
k = 2.75
y
x
4
2
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−2
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−4
−2
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2
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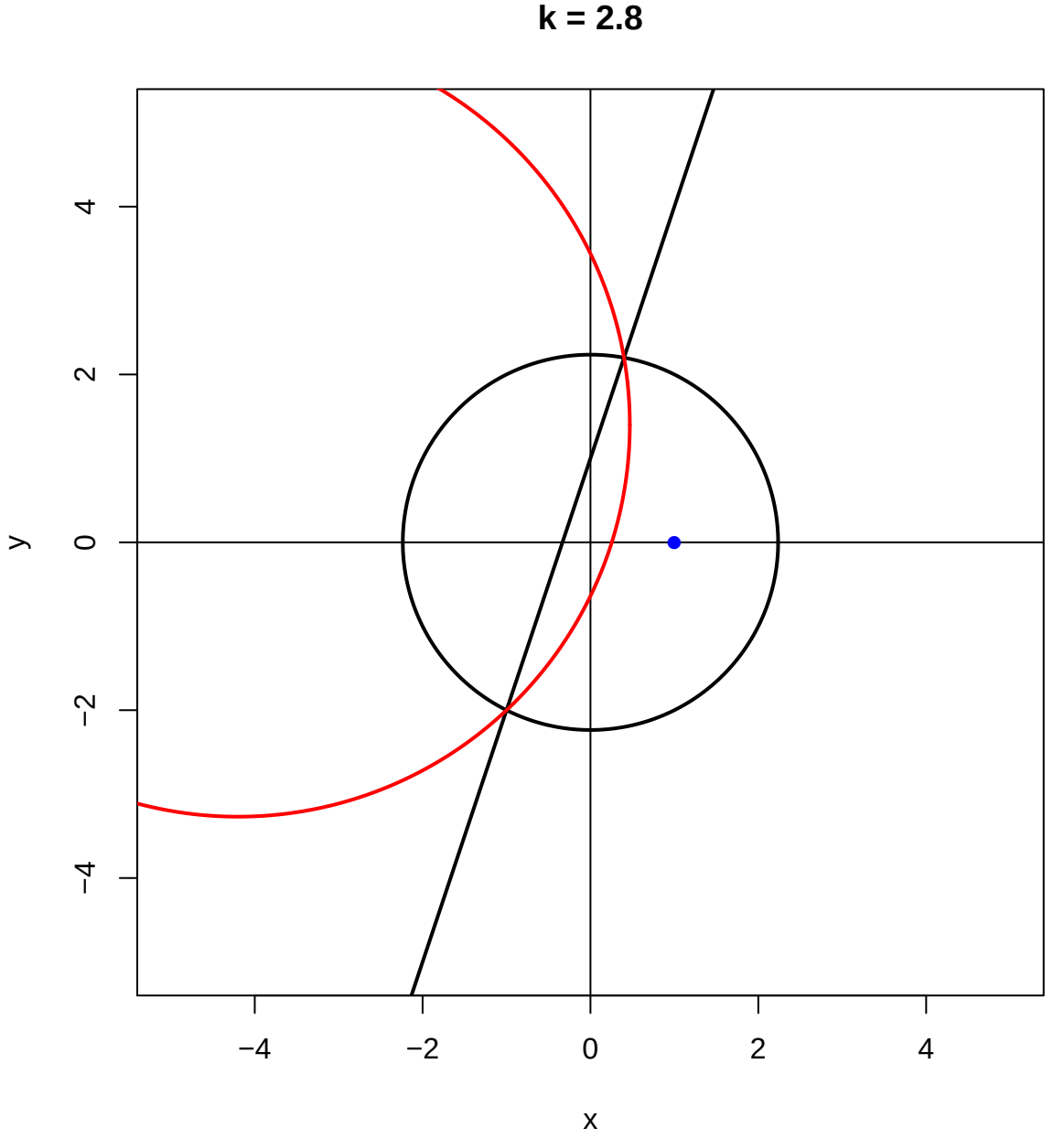
k = 2.8
y
x
4
2
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−2
−4
−4
−2
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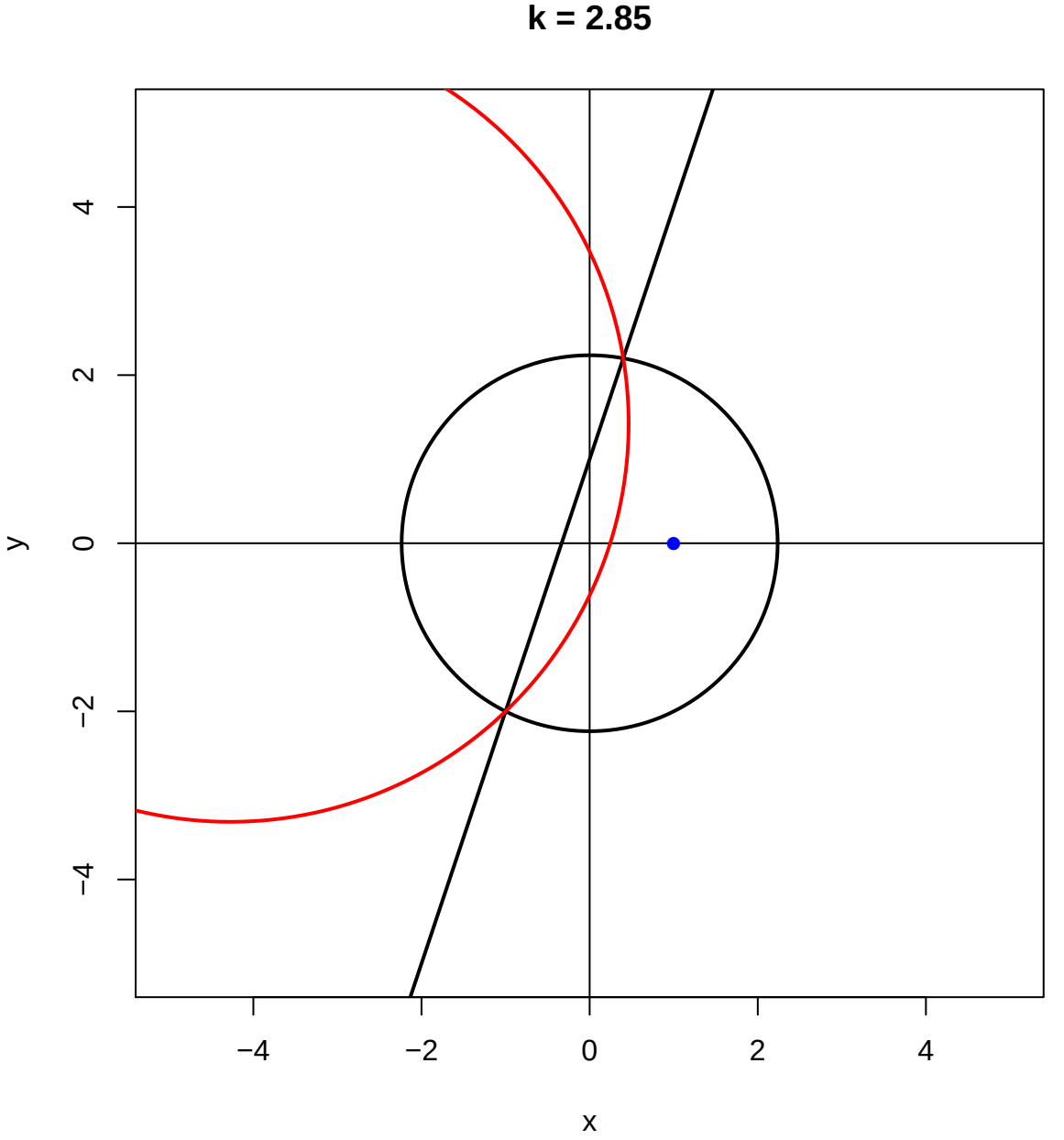
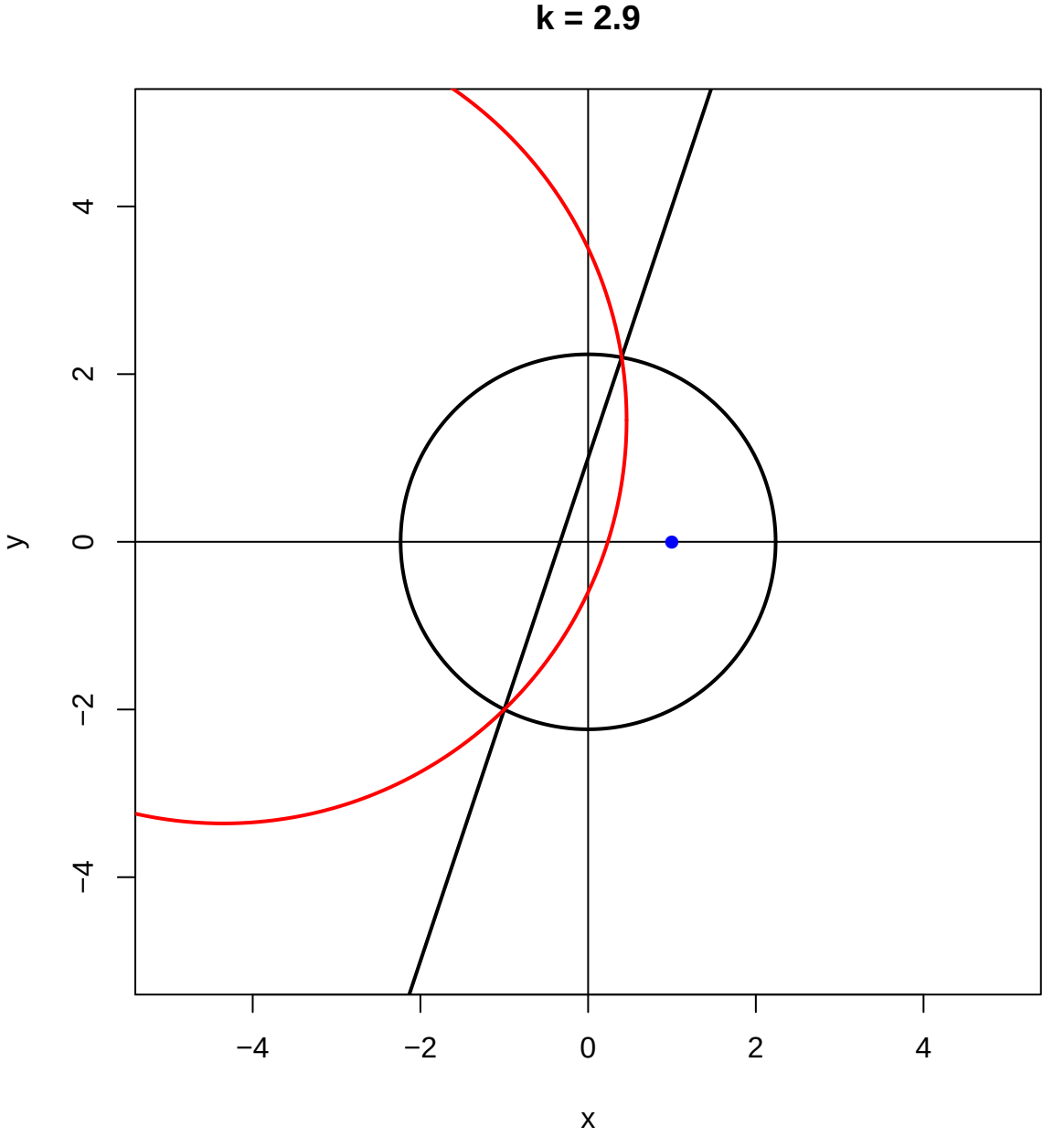
2
4


k = 2.85
y
x
4
2
0
−2
−4
−4
−2
0
2
4


k = 2.9
y
x
4
2
0
−2
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−4
−2
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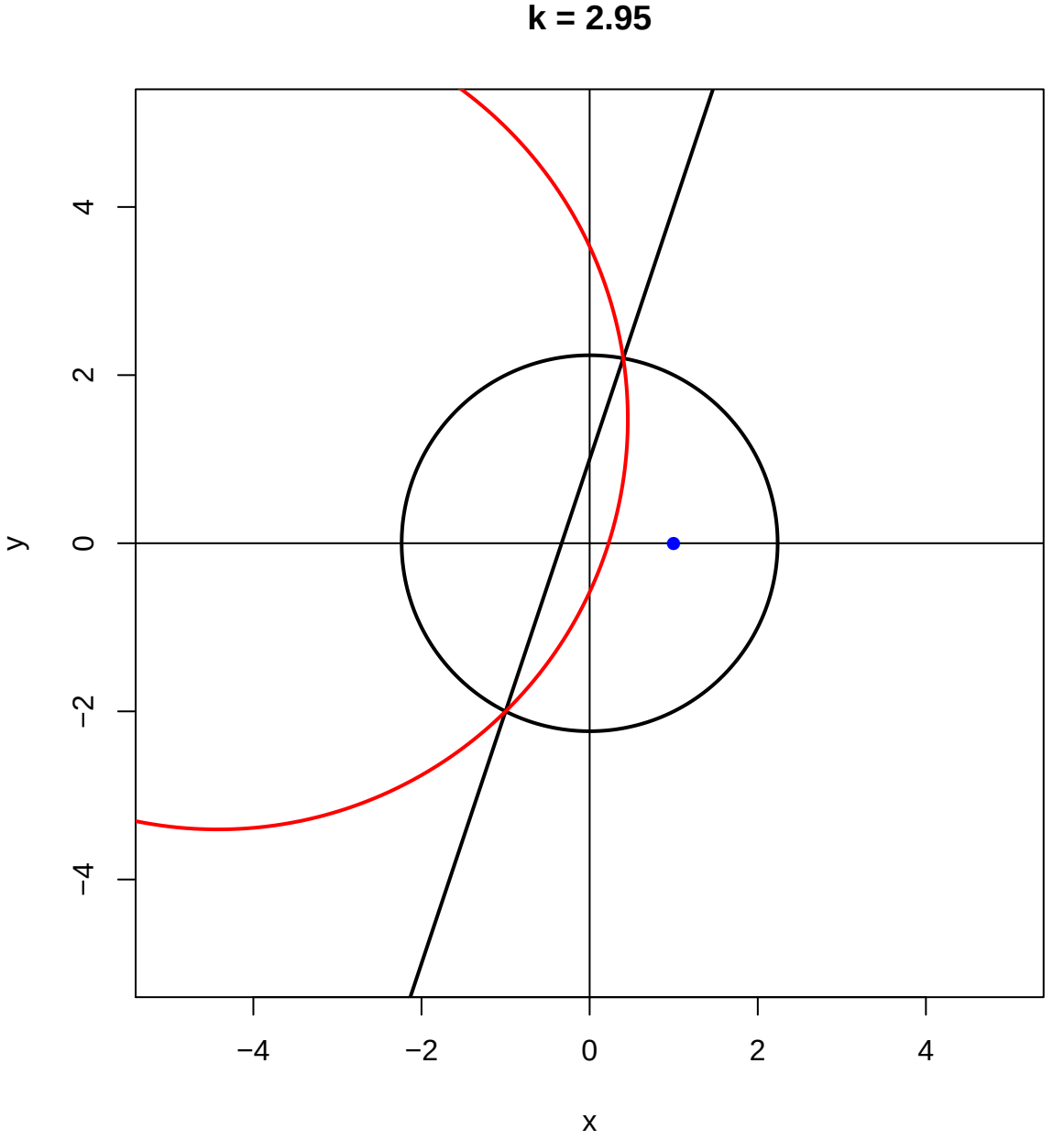
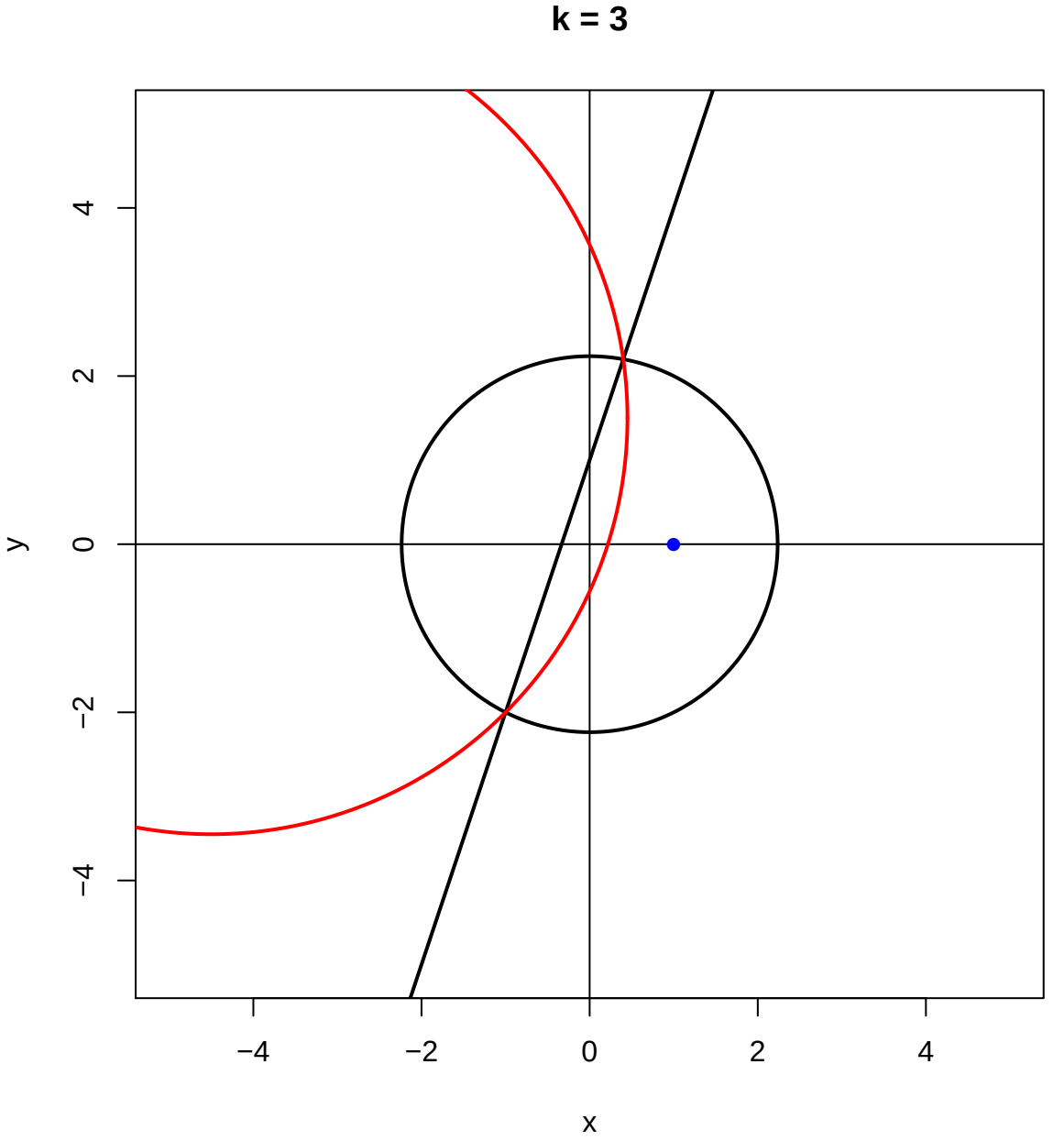
2
4


k = 2.95
y
x
4
2
0
−2
−4
−4
−2
0
2
4


k = 3
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x
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2
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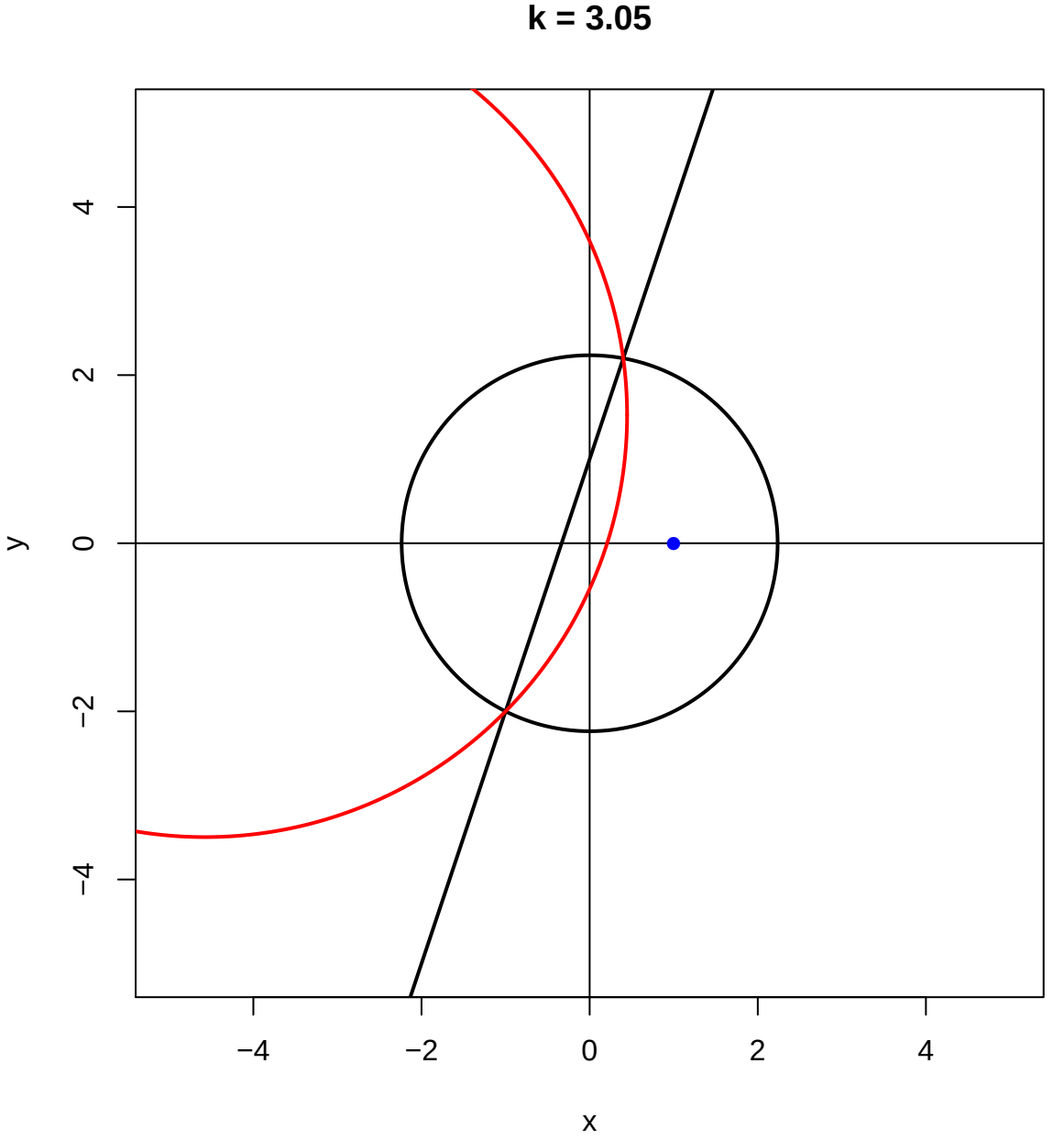
−2
−4
−4
−2
0
2
4


k = 3.05
y
x
4
2
0
−2
−4
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−2
0
2
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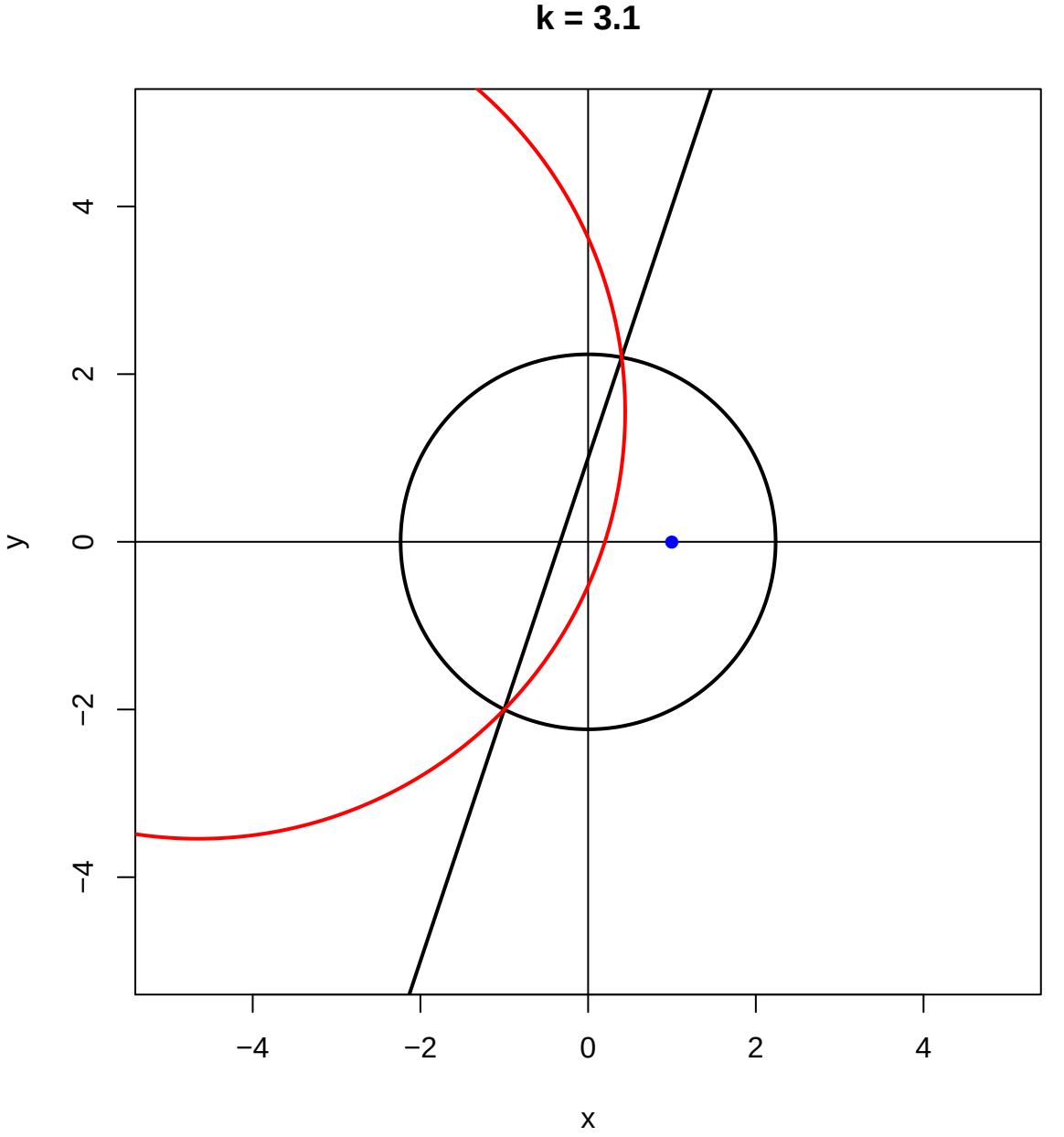
k = 3.1
y
x
4
2
0
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−4
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2
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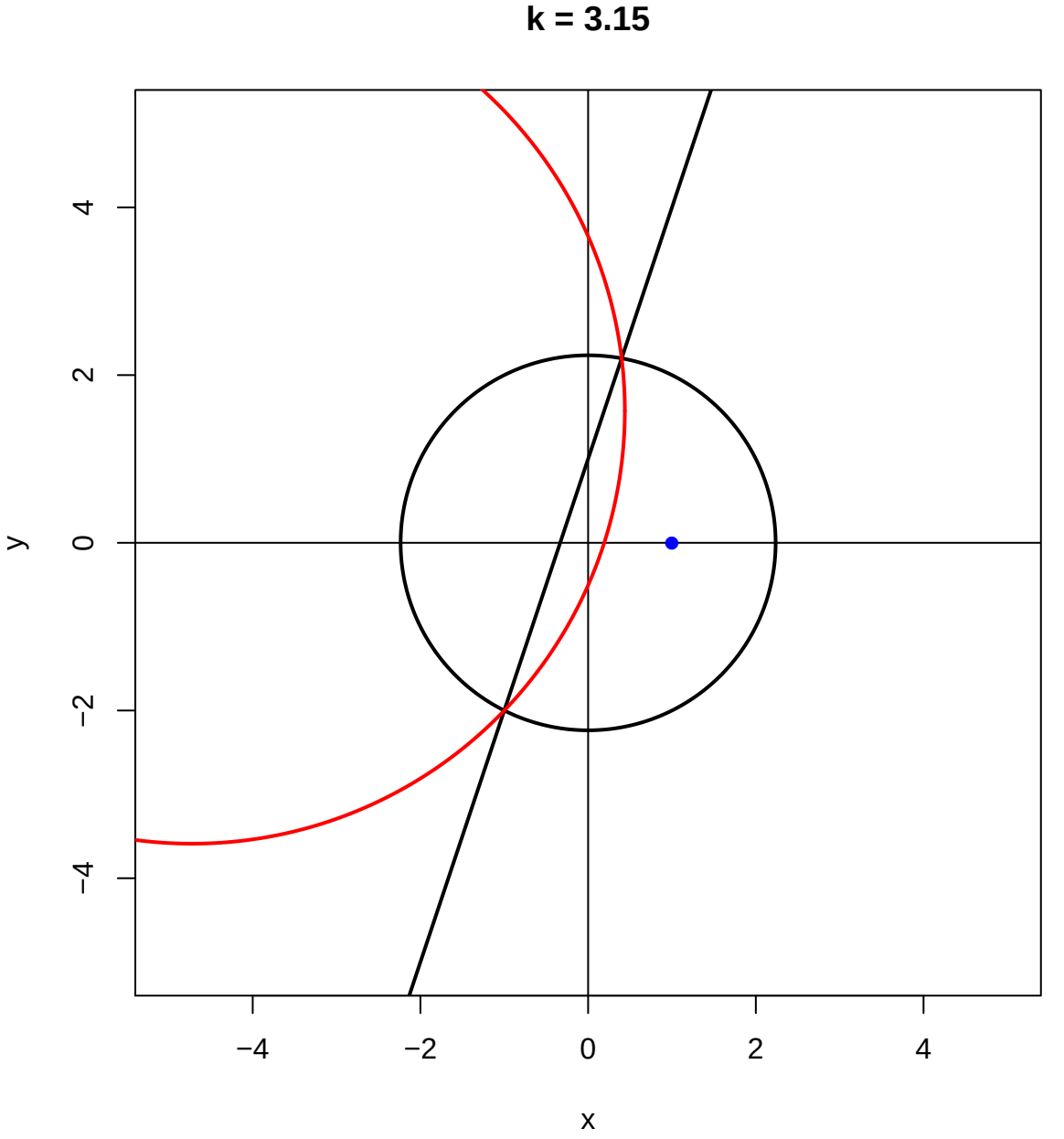
k = 3.15
y
x
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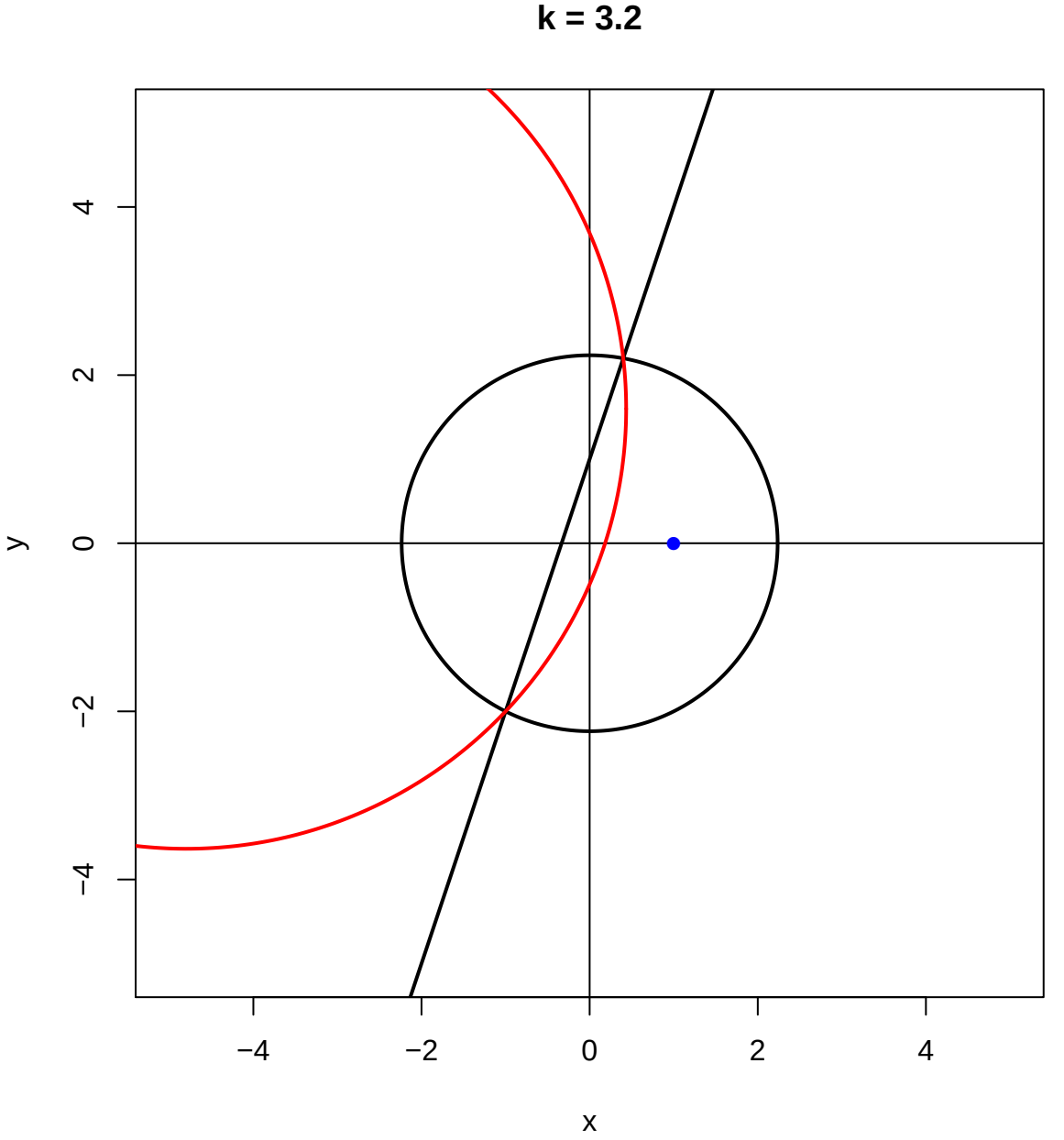
k = 3.2
y
x
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2
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−2
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−2
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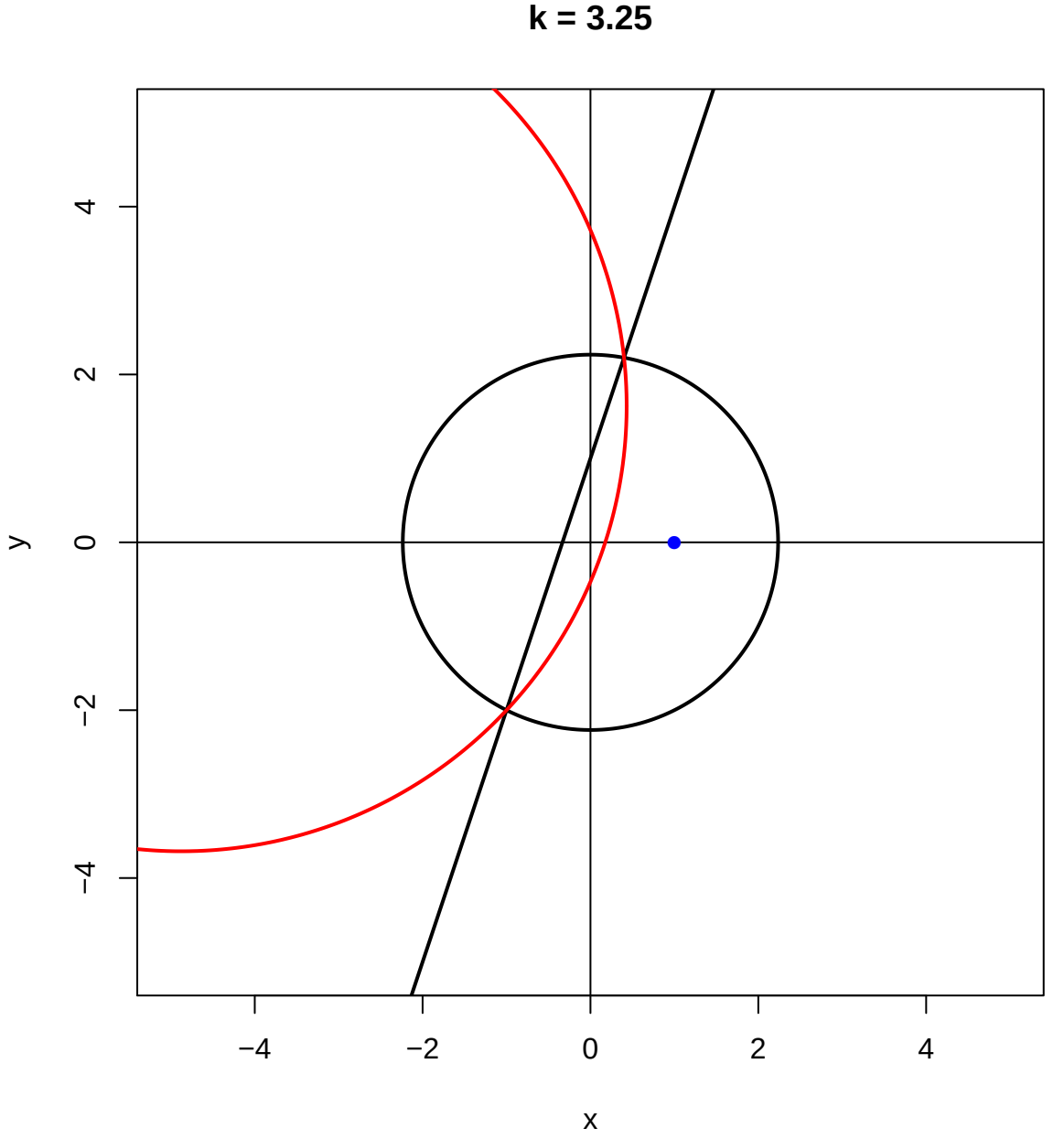
k = 3.25
y
x
4
2
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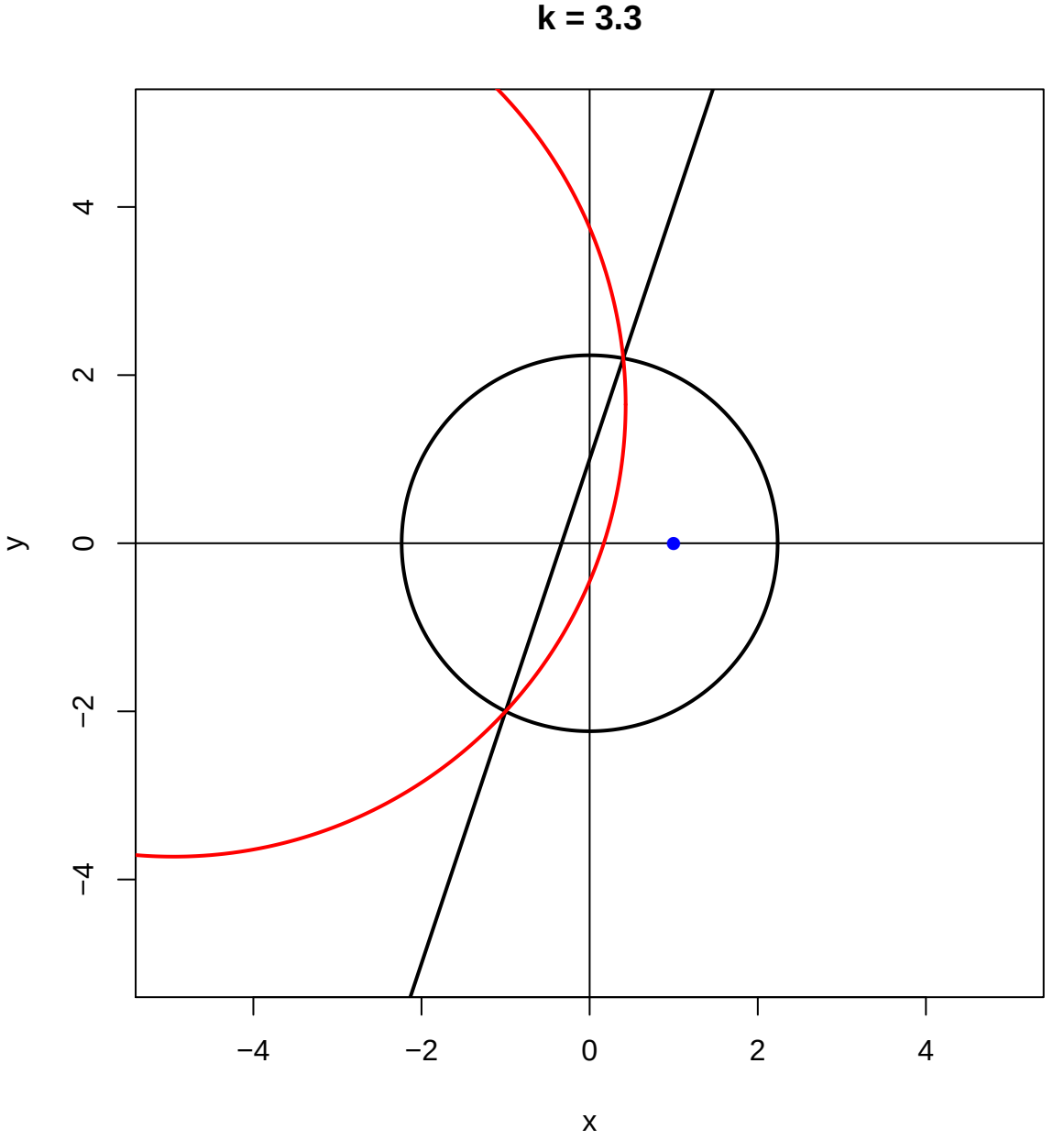
k = 3.3
y
x
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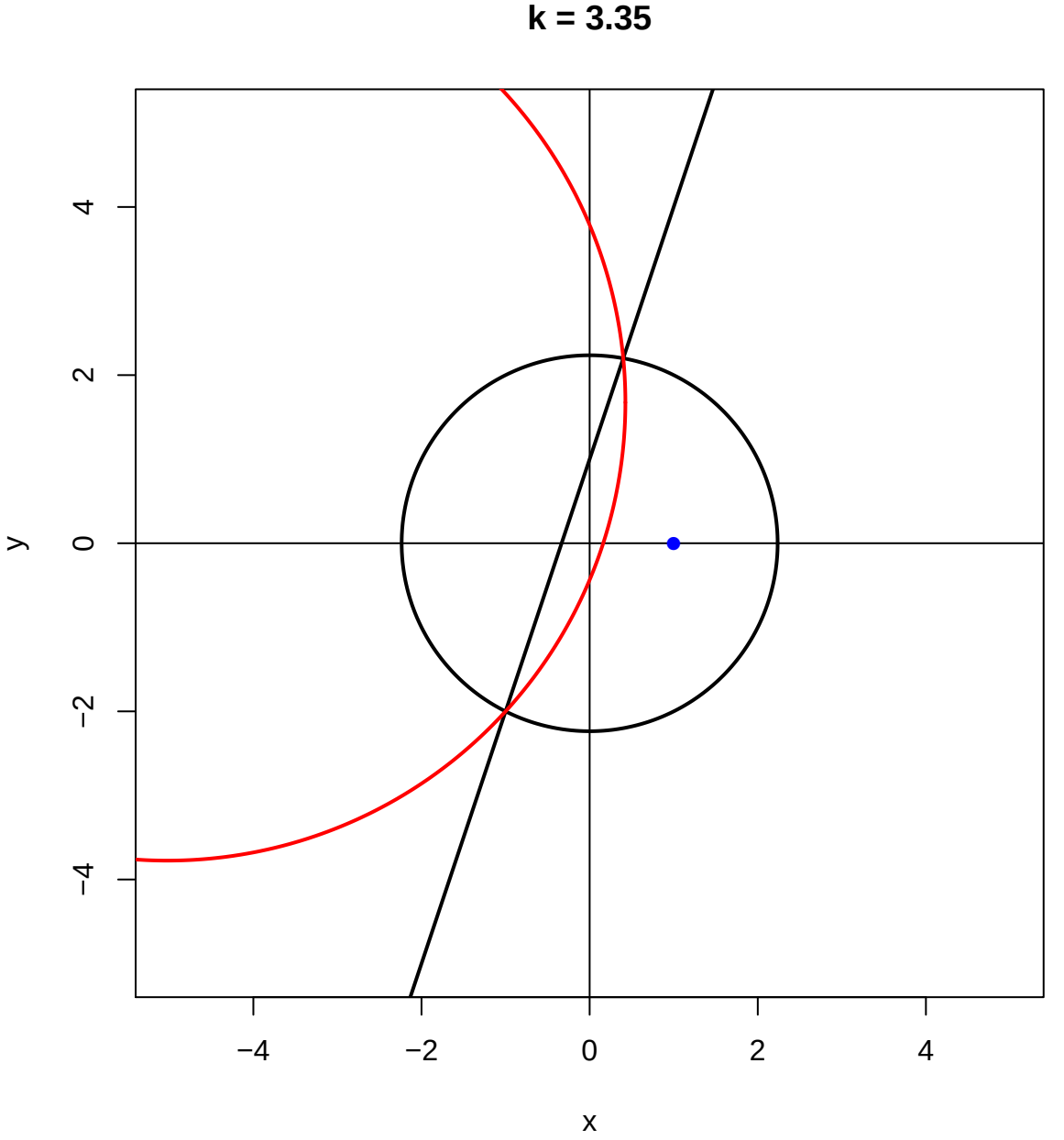
k = 3.35
y
x
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2
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−2
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2
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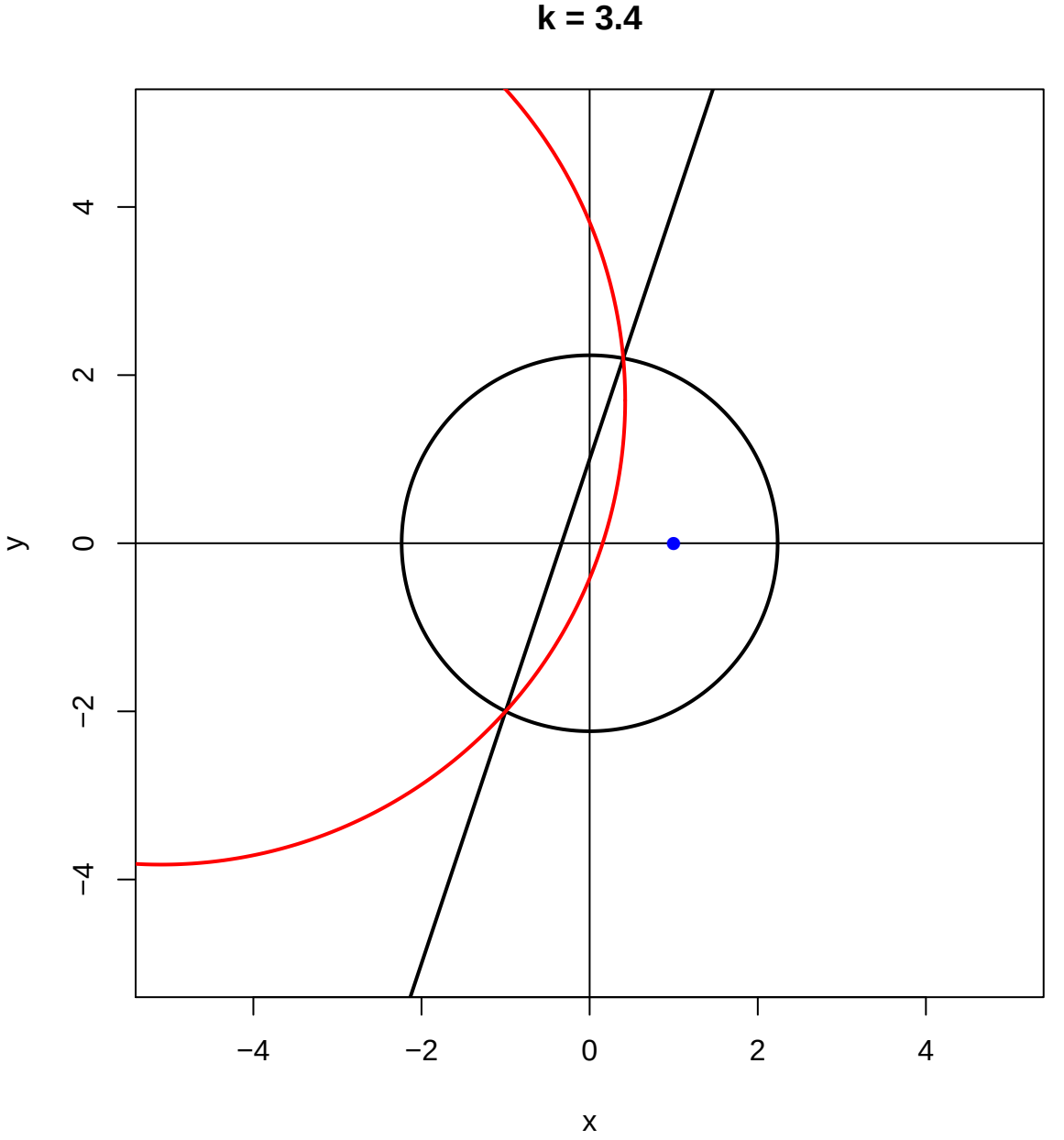
k = 3.4
y
x
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2
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2
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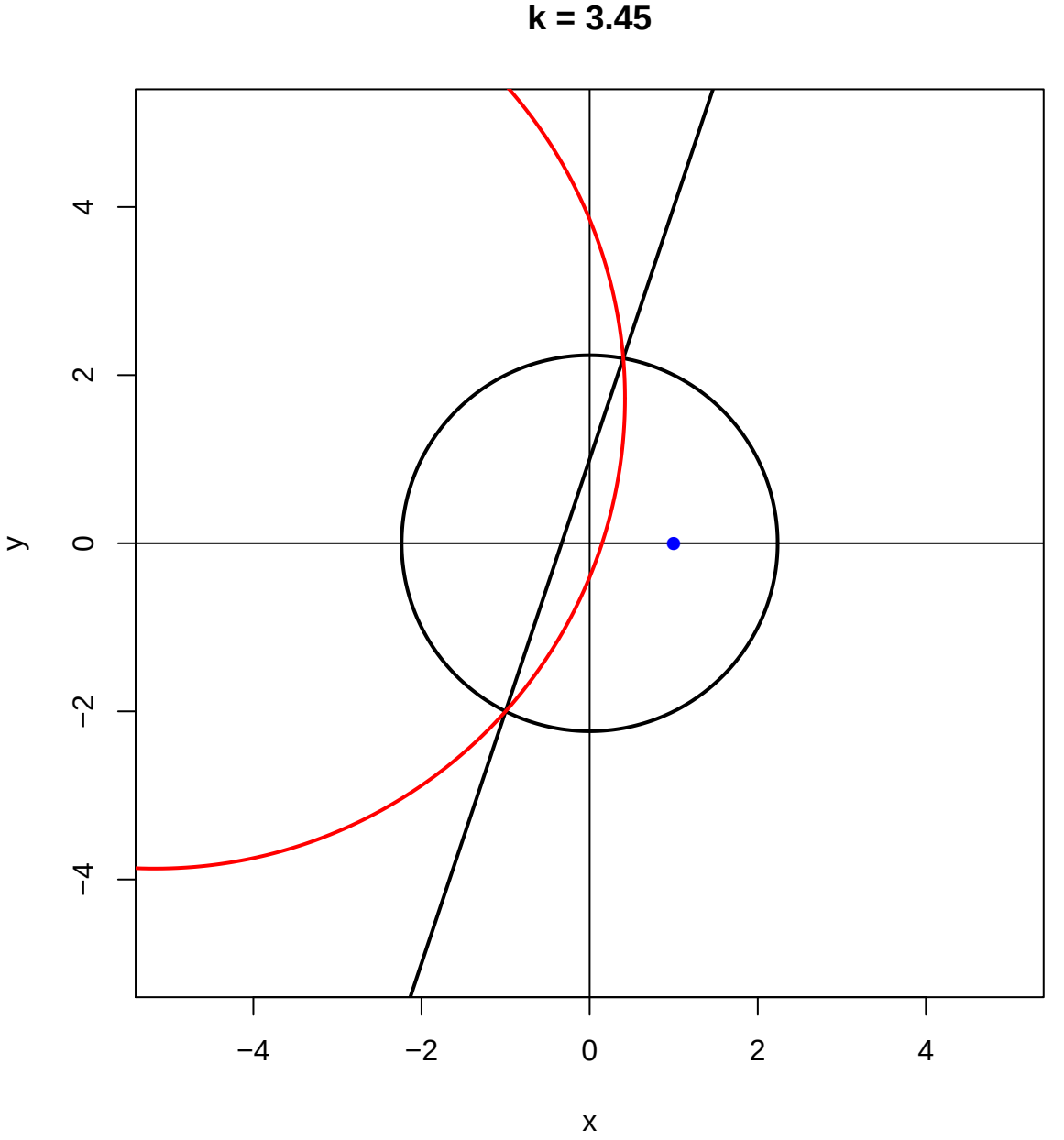
k = 3.45
y
x
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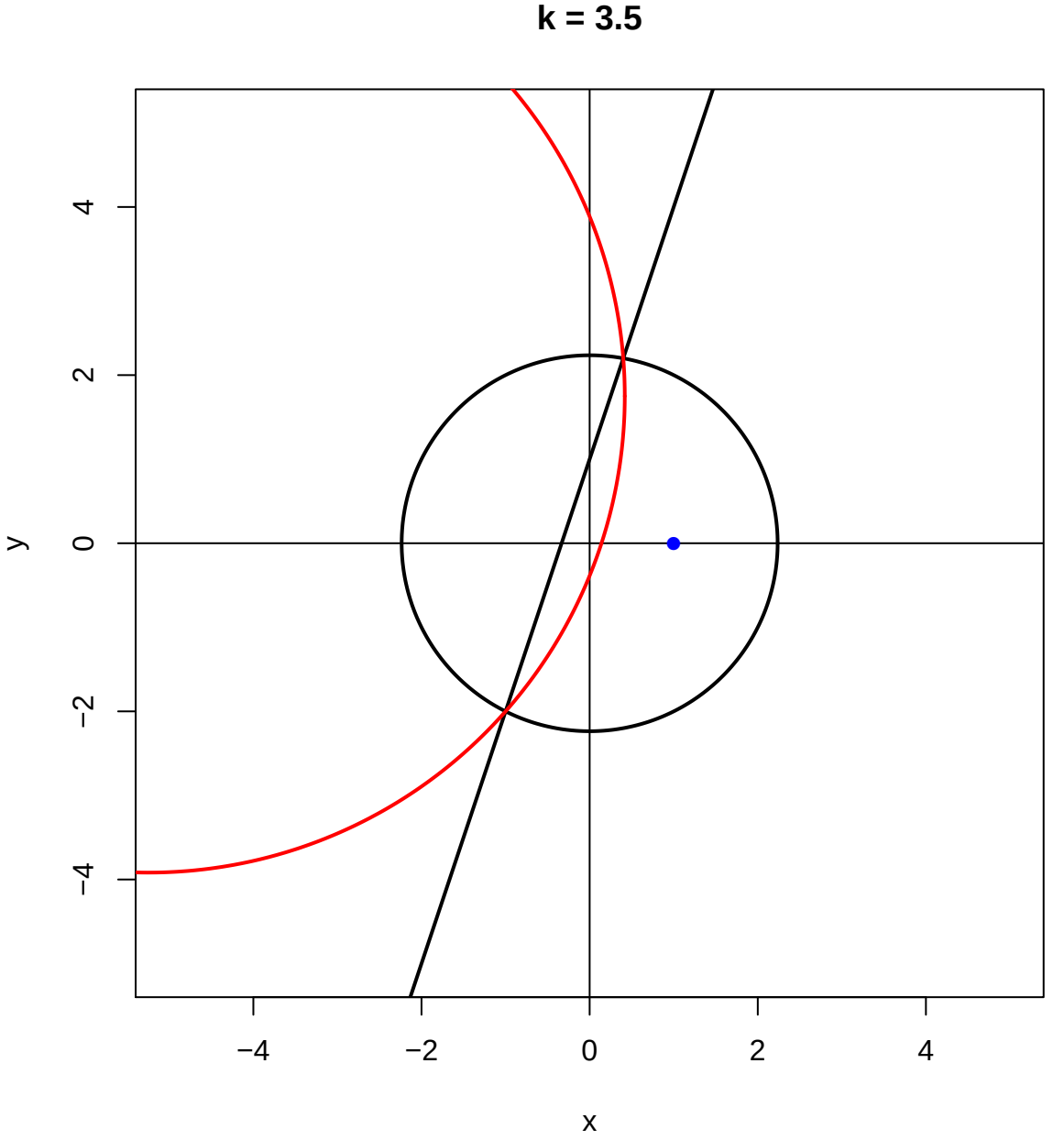
k = 3.5
y
x
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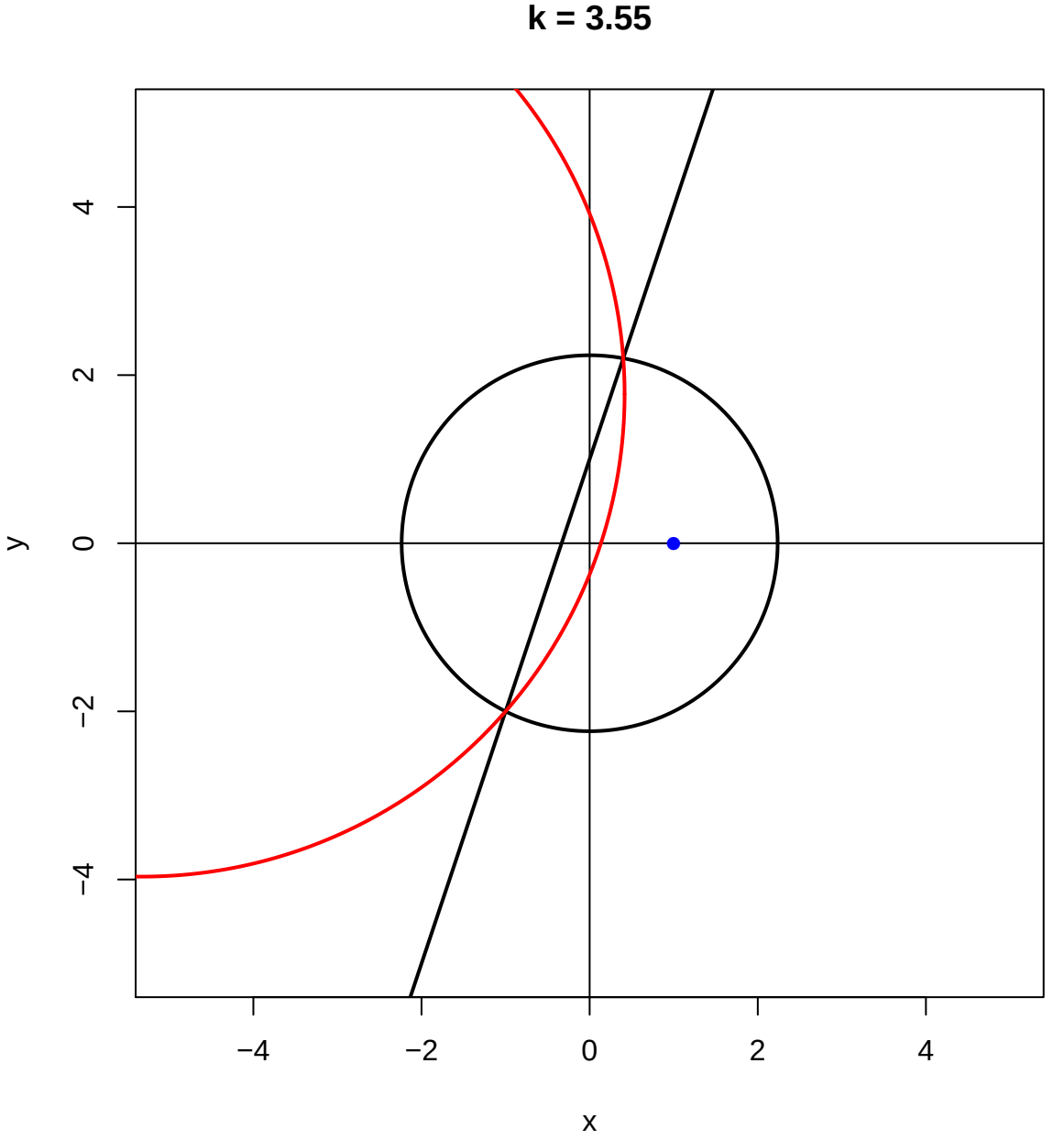
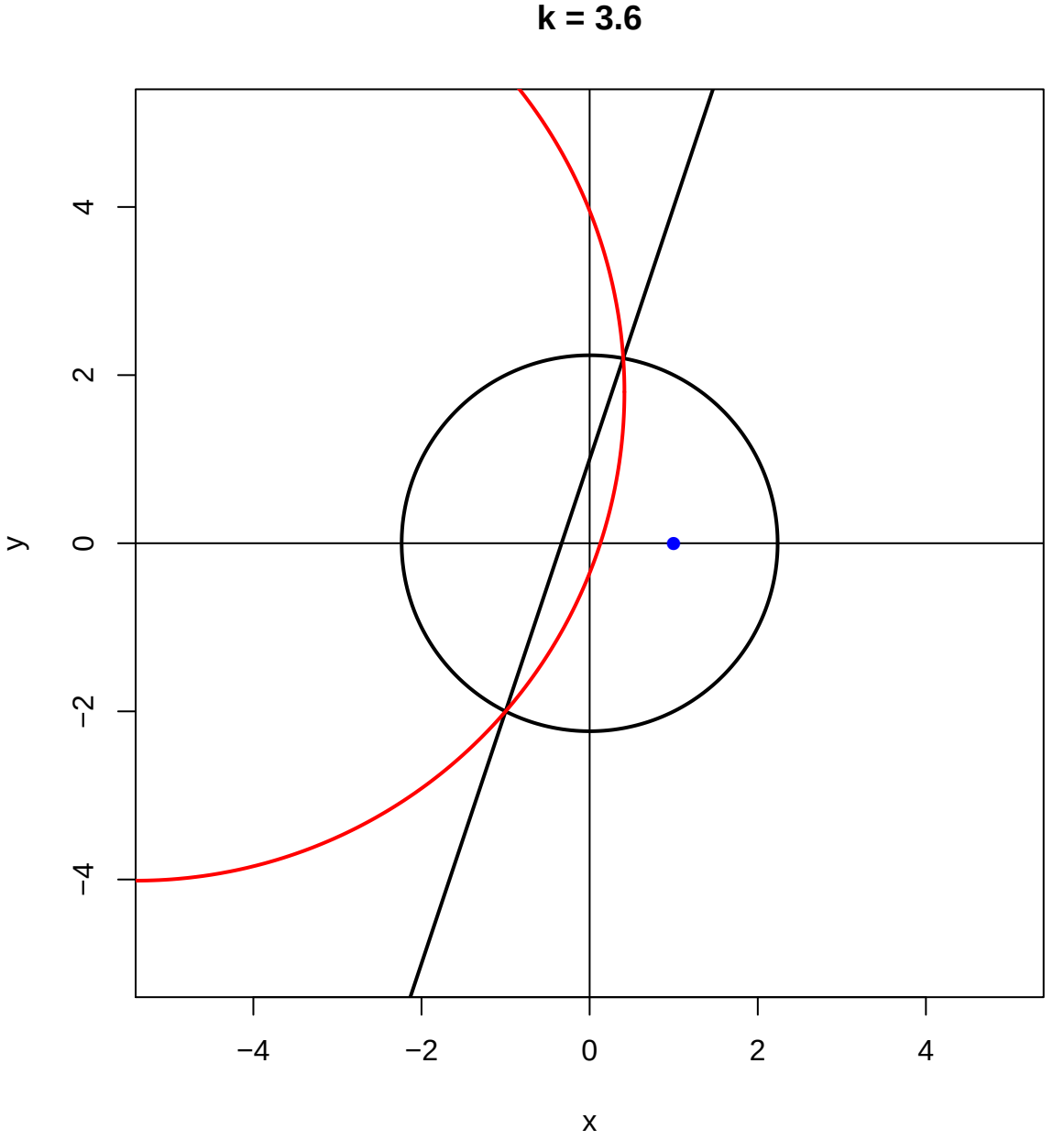

k = 3.55
y
x
4
2
0
−2
−4
−4
−2
0
2
4


k = 3.6
y
x
4
2
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−2
−4
−4
−2
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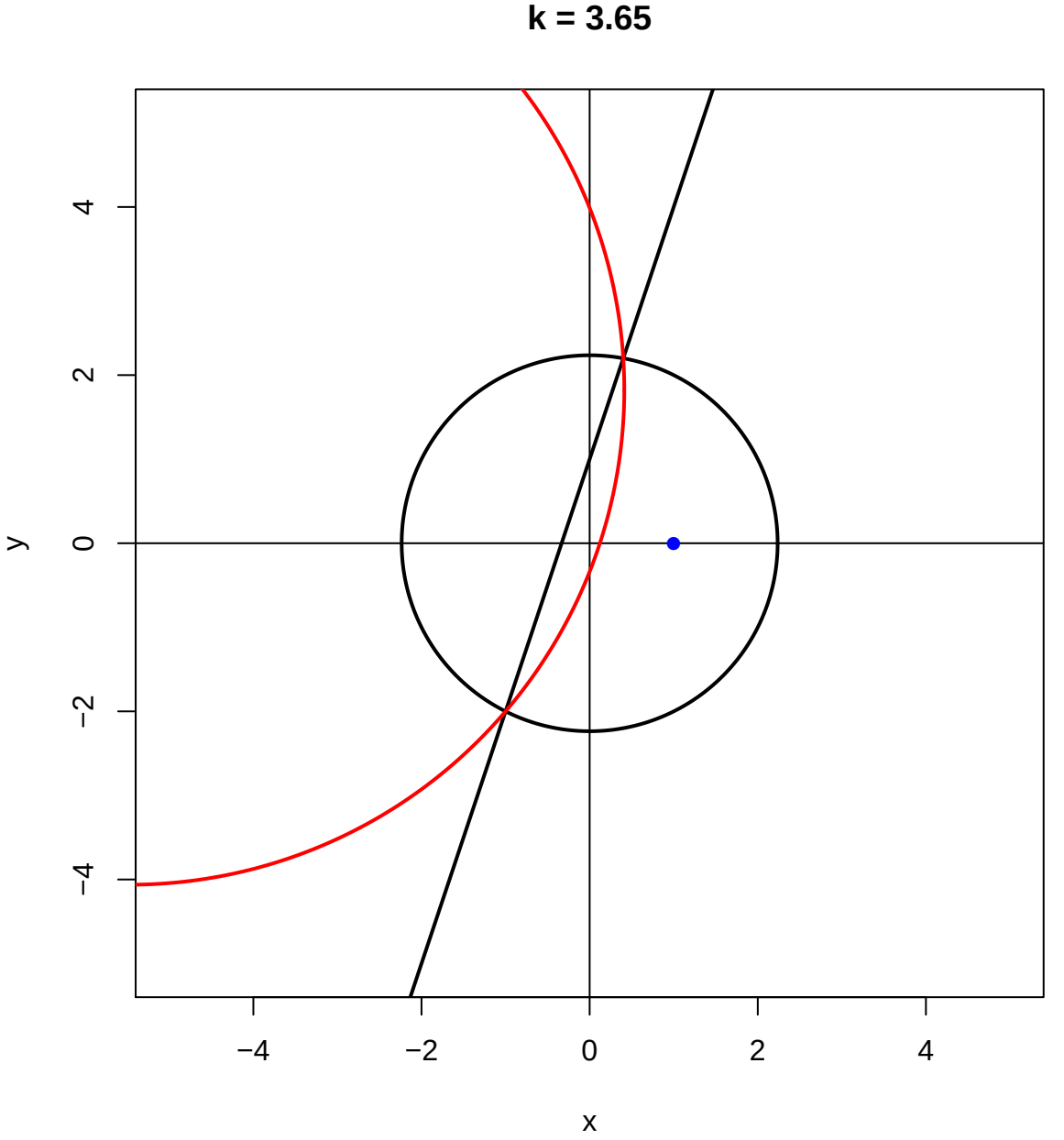
2
4


k = 3.65
y
x
4
2
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−2
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−2
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2
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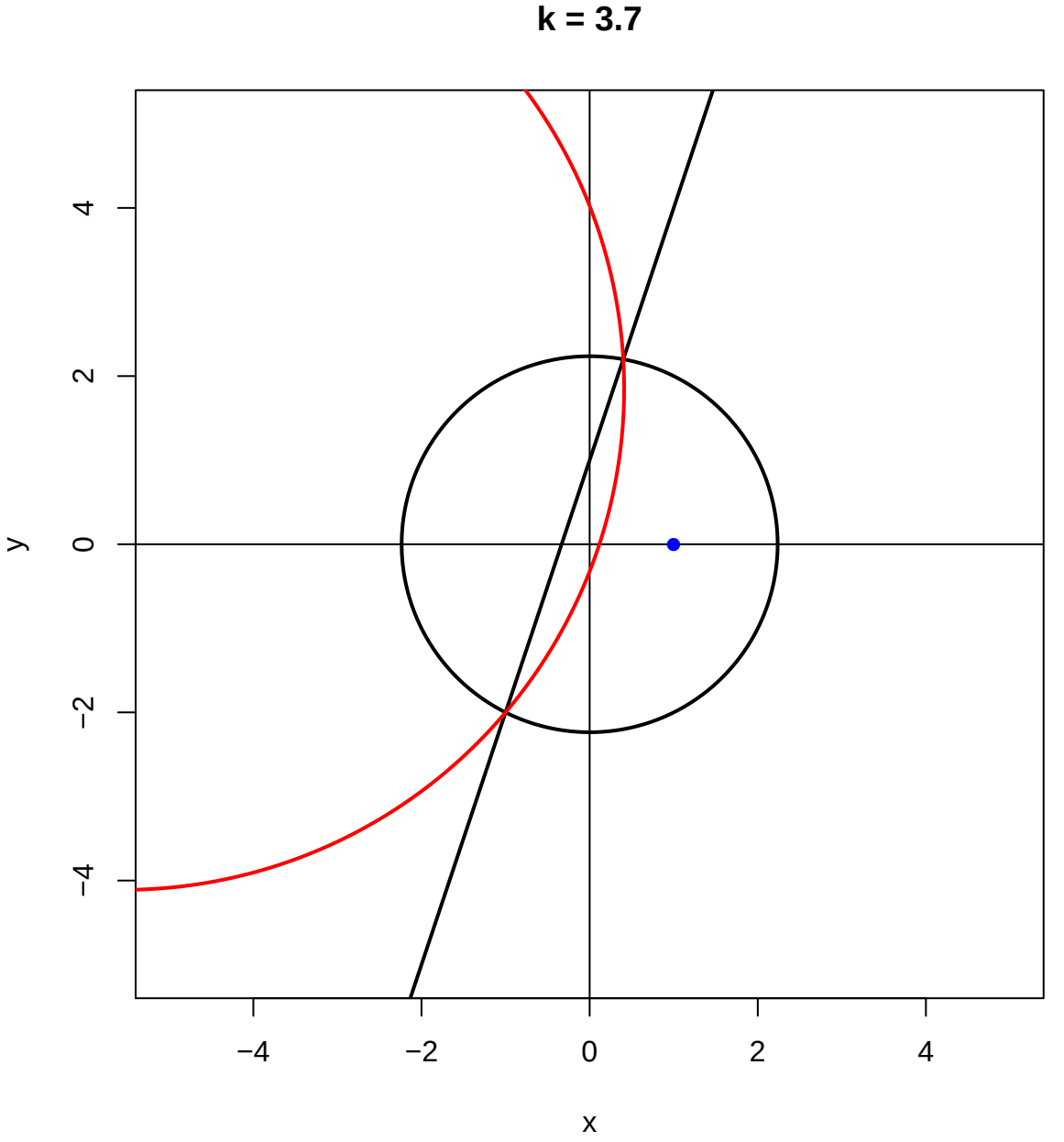
k = 3.7
y
x
4
2
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−2
−4
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−2
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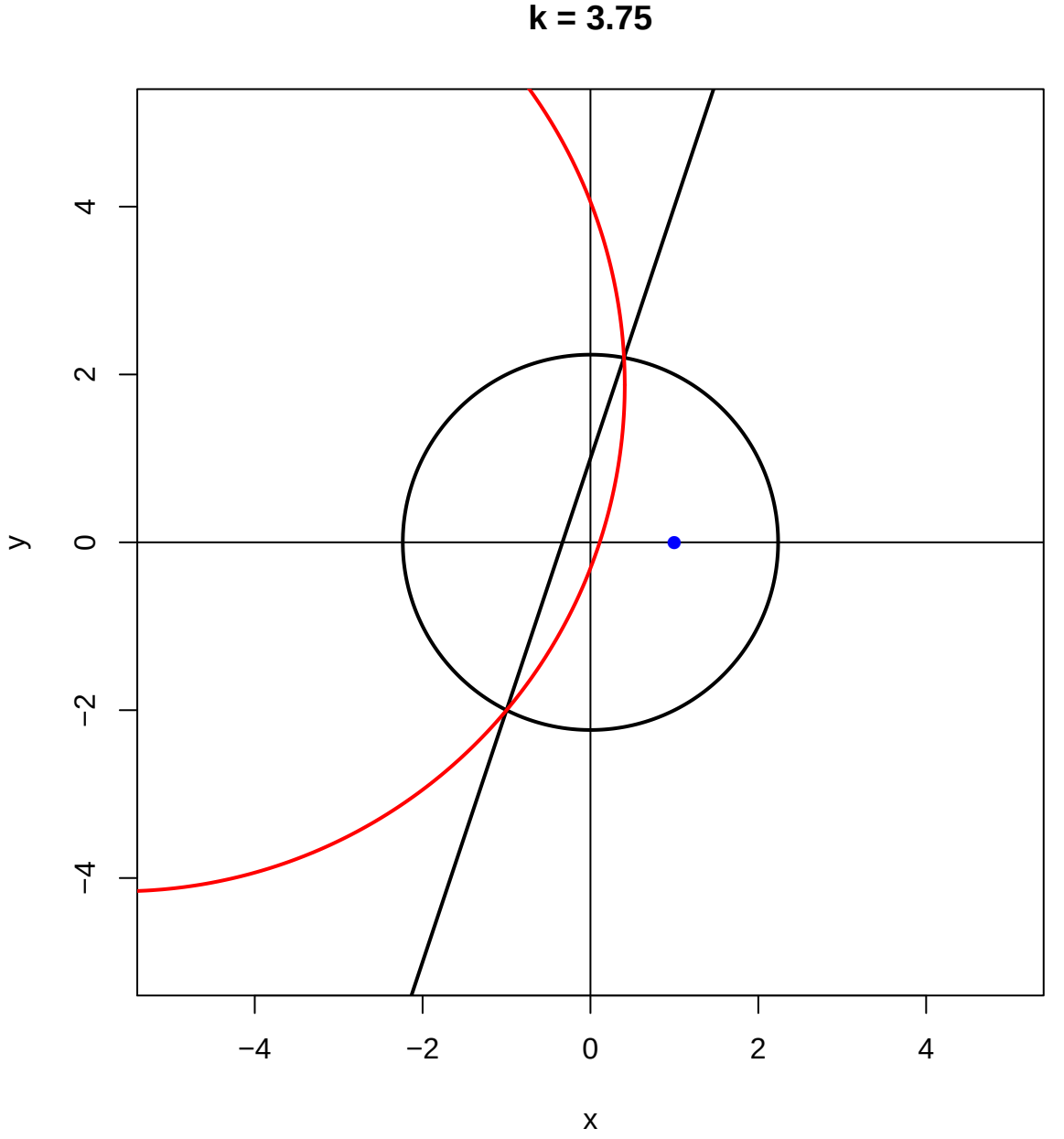
2
4


k = 3.75
y
x
4
2
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−4
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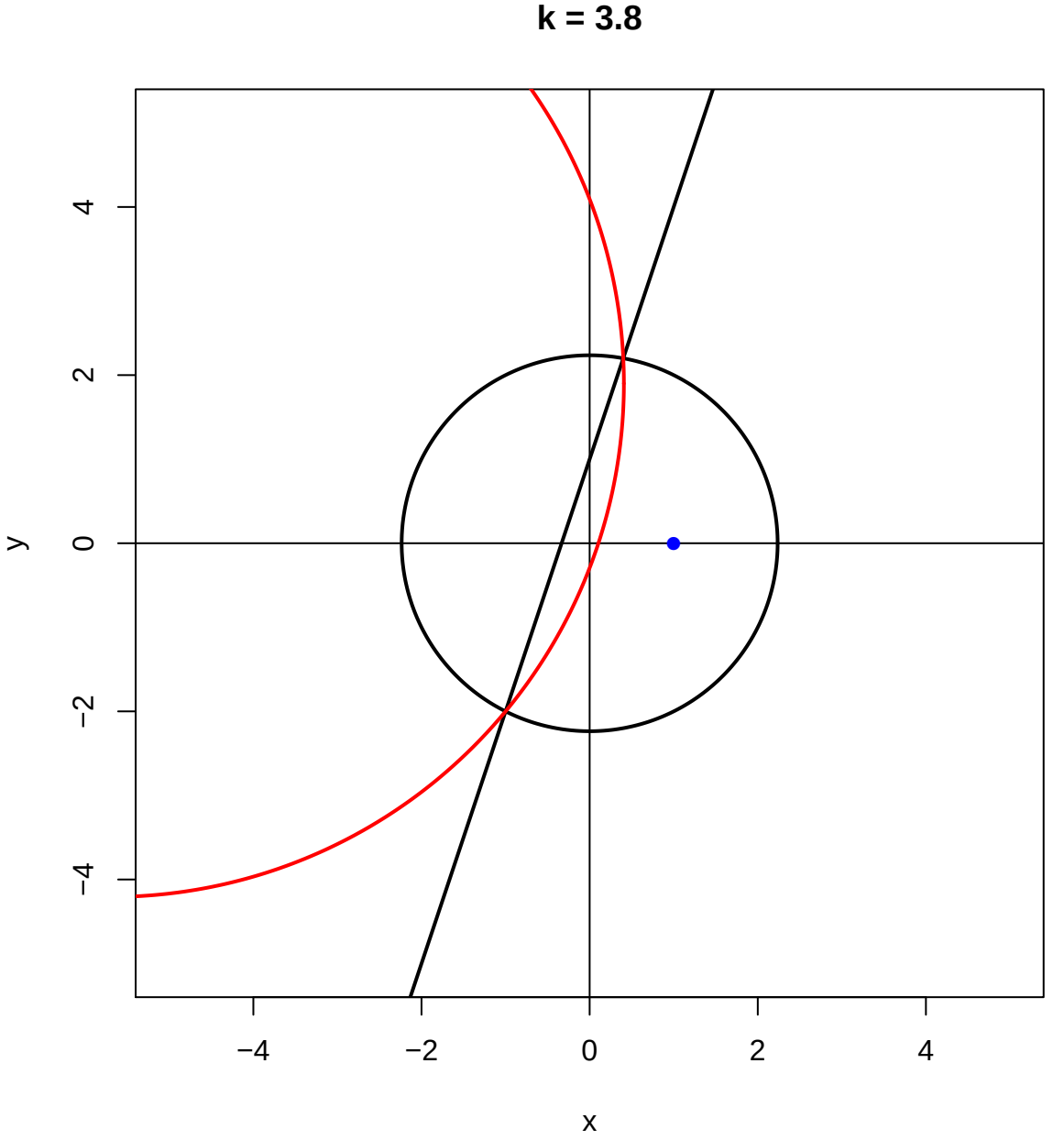
−2
0
2
4


k = 3.8
y
x
4
2
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−2
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−2
0
2
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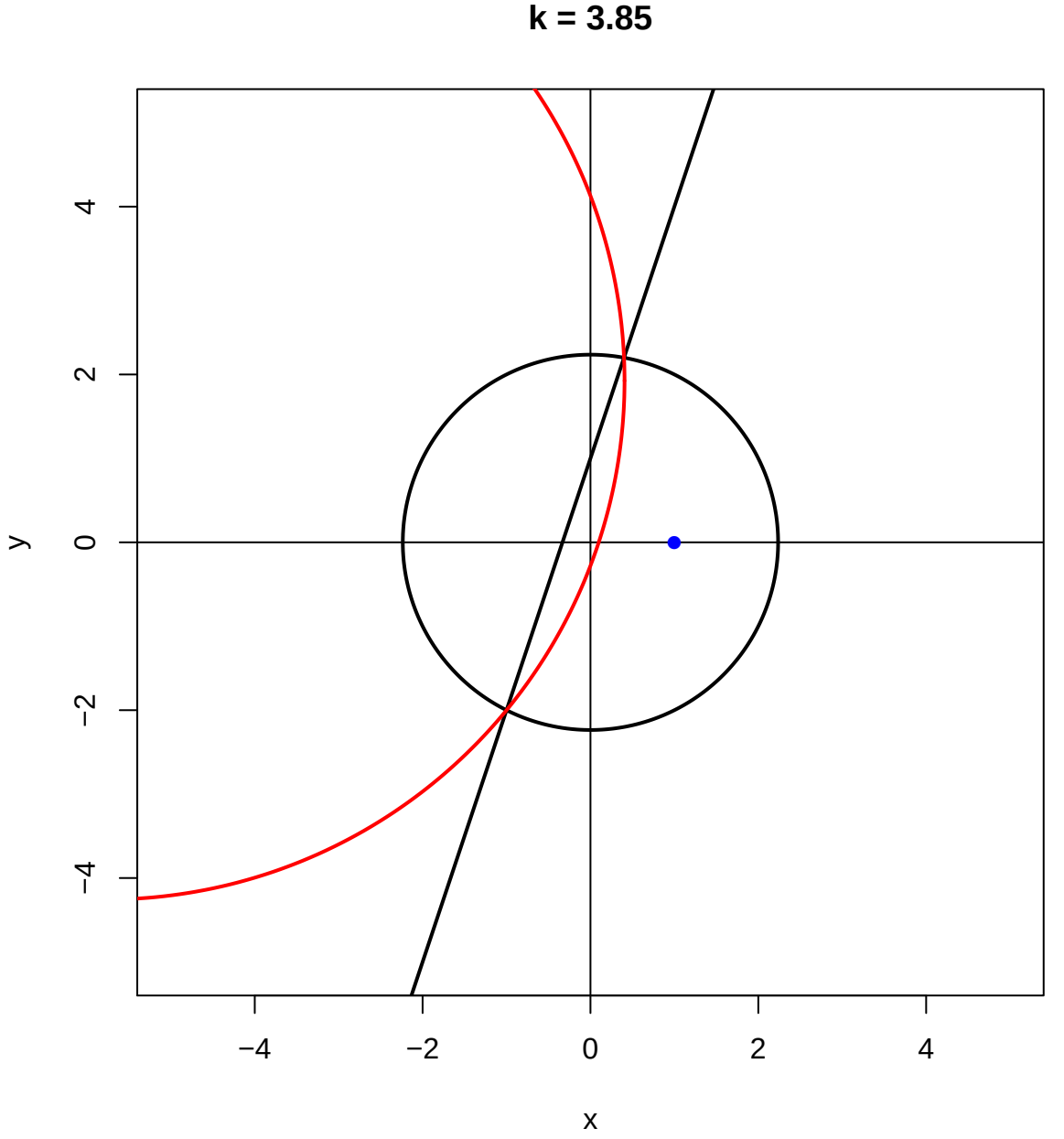
k = 3.85
y
x
4
2
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−4
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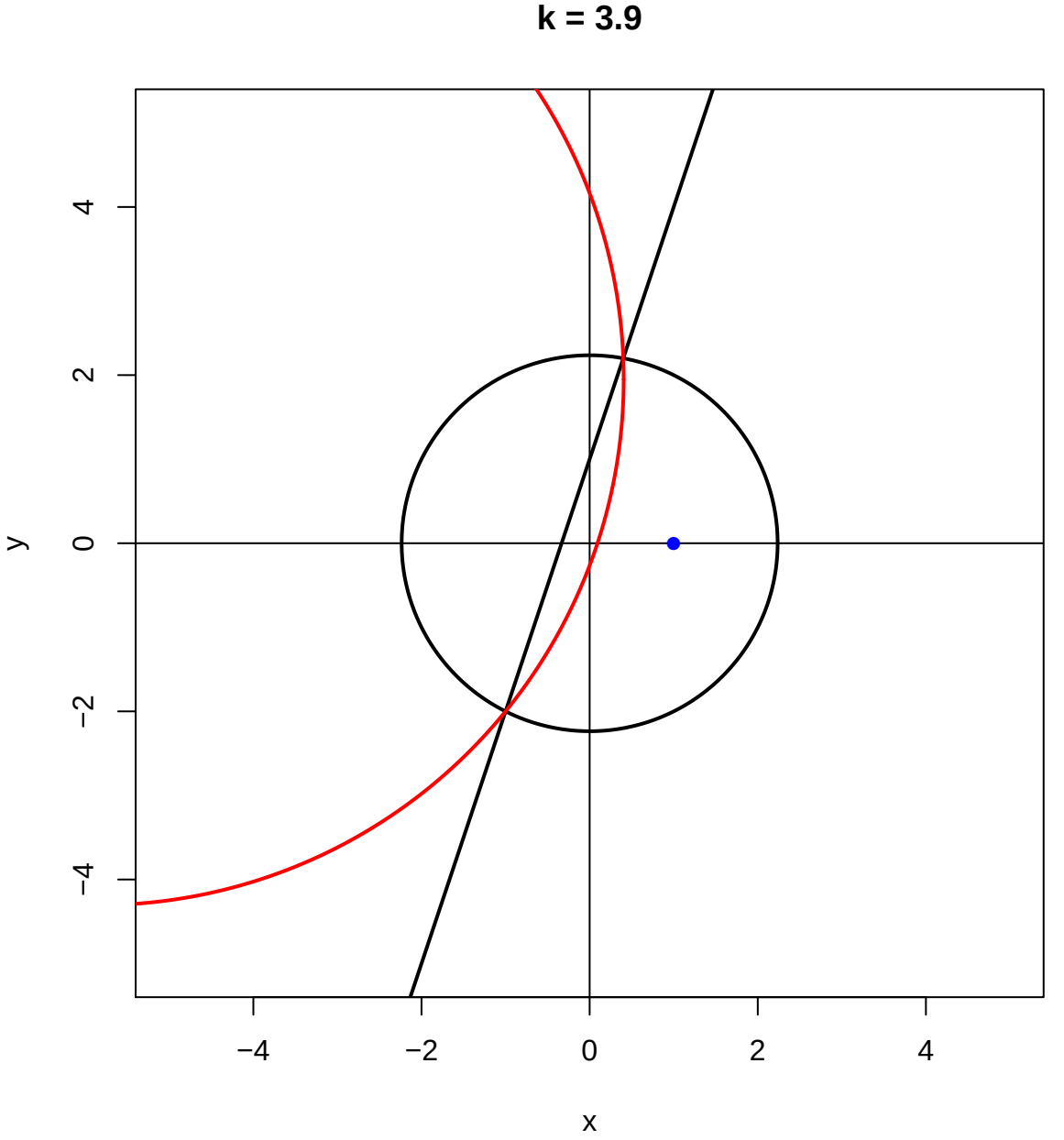
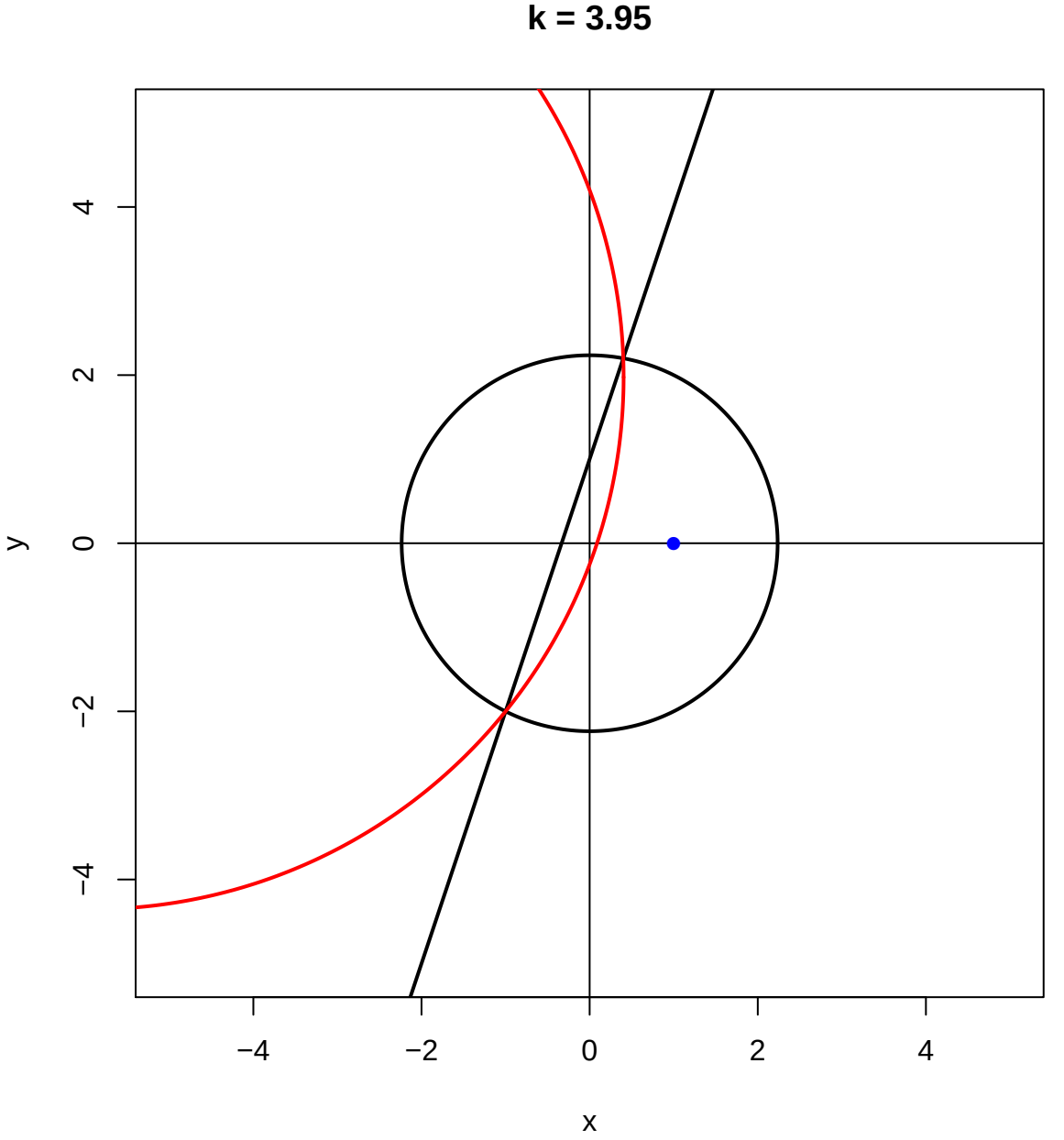
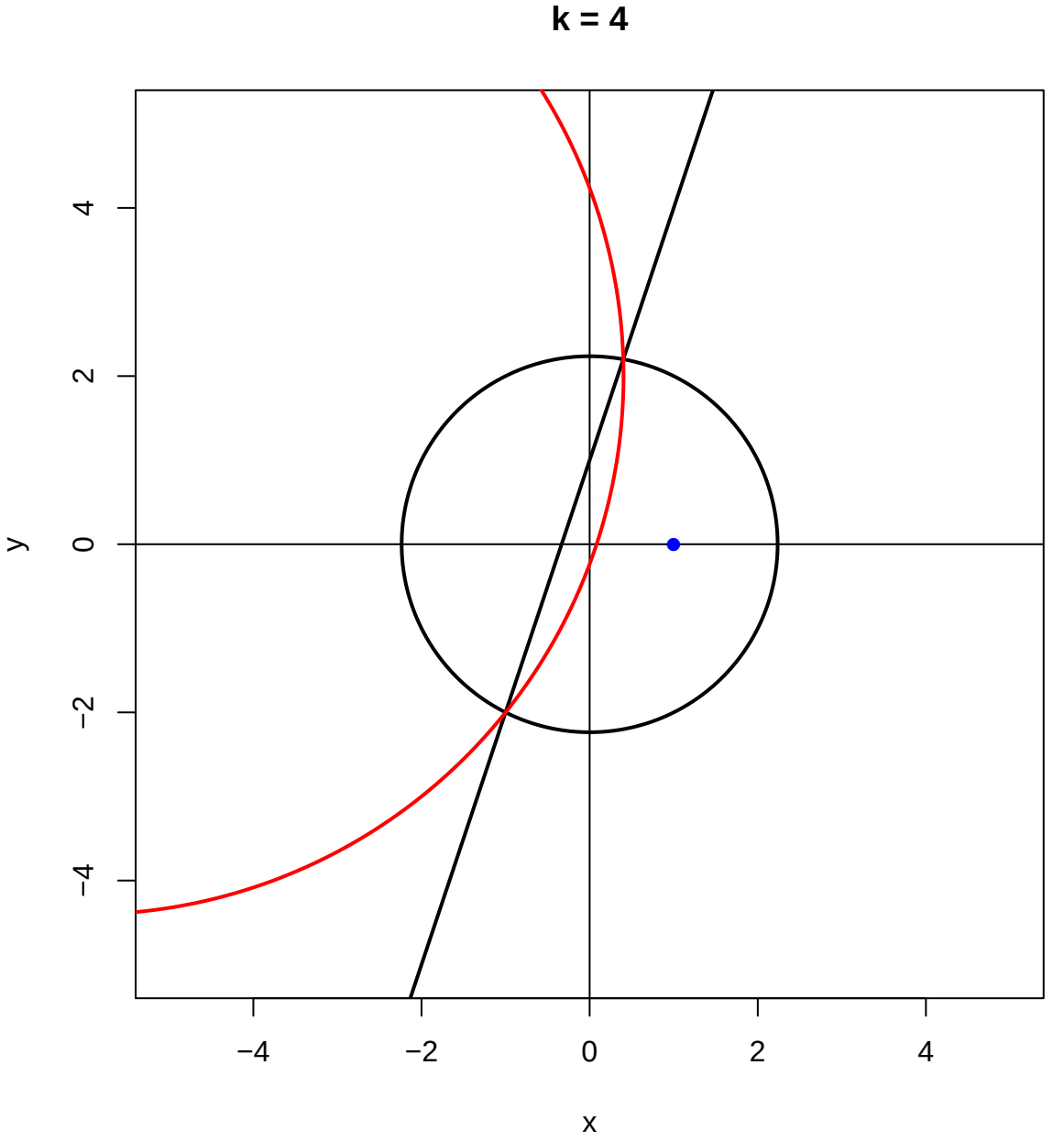
−2
0
2
4


k = 3.9
y
x
4
2
0
−2
−4
−4
−2
0
2
4


k = 3.95
y
x
4
2
0
−2
−4
−4
−2
0
2
4


k = 4
y
x
4
2
0
−2
−4
−4
−2
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2
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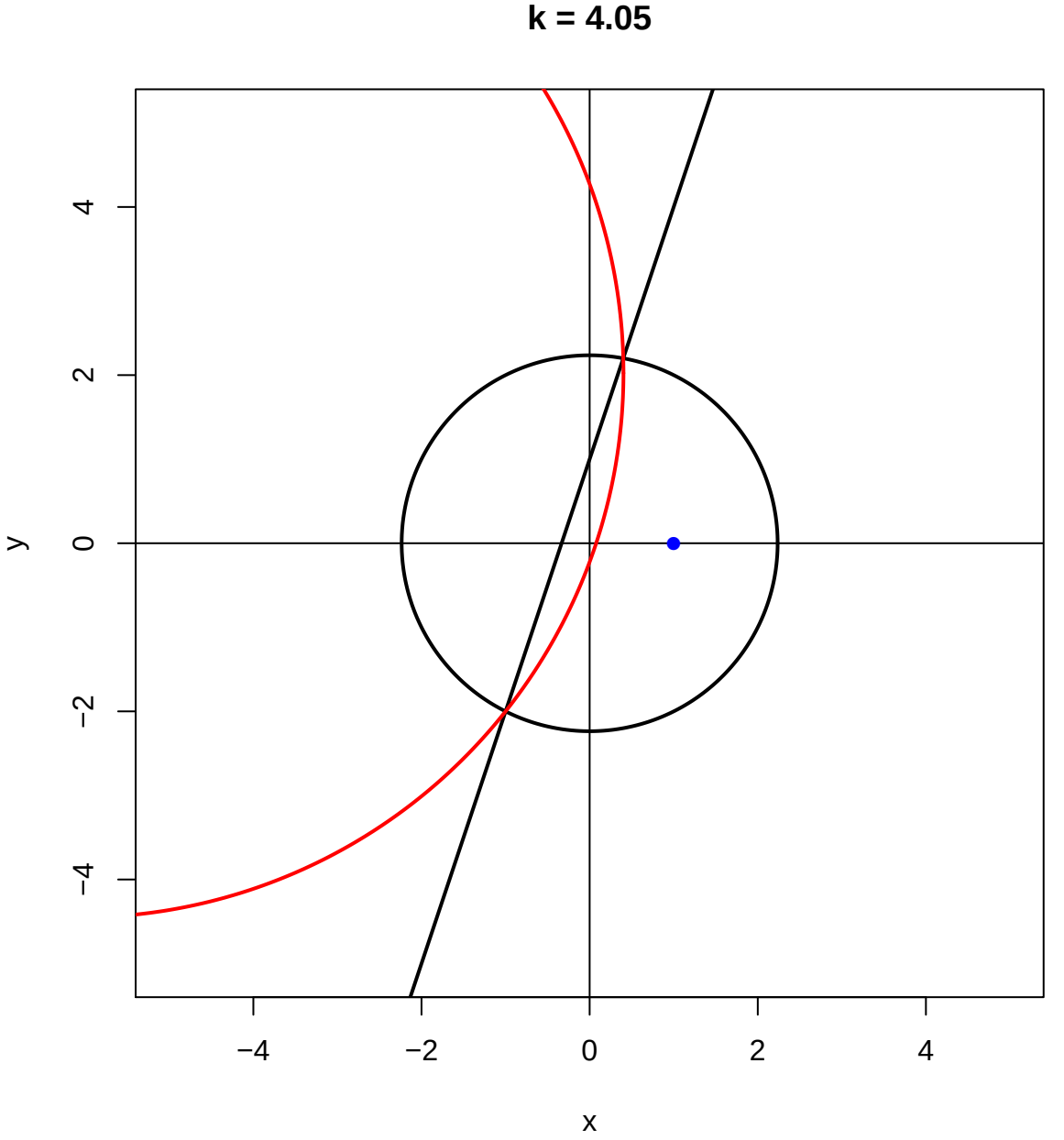
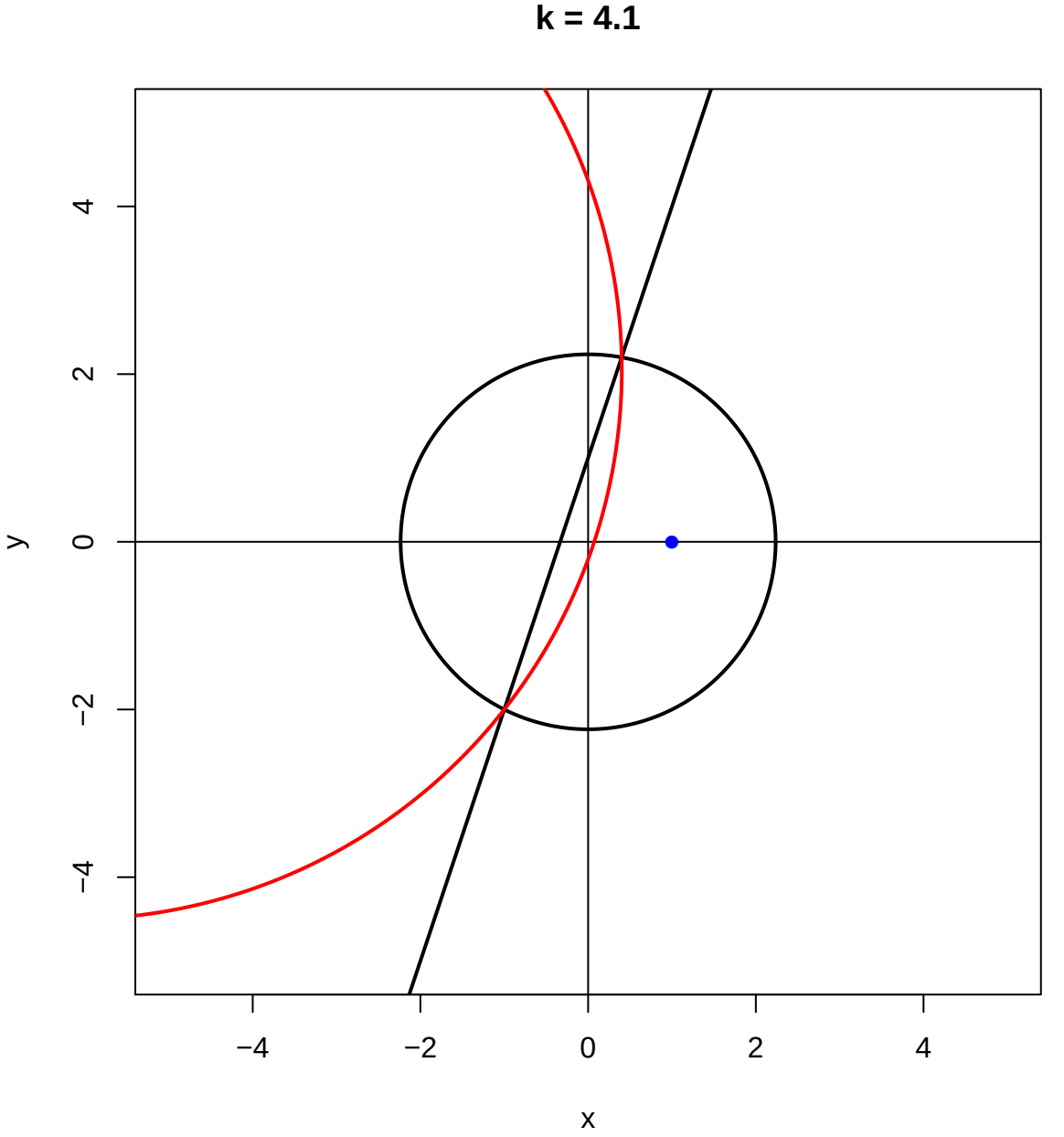
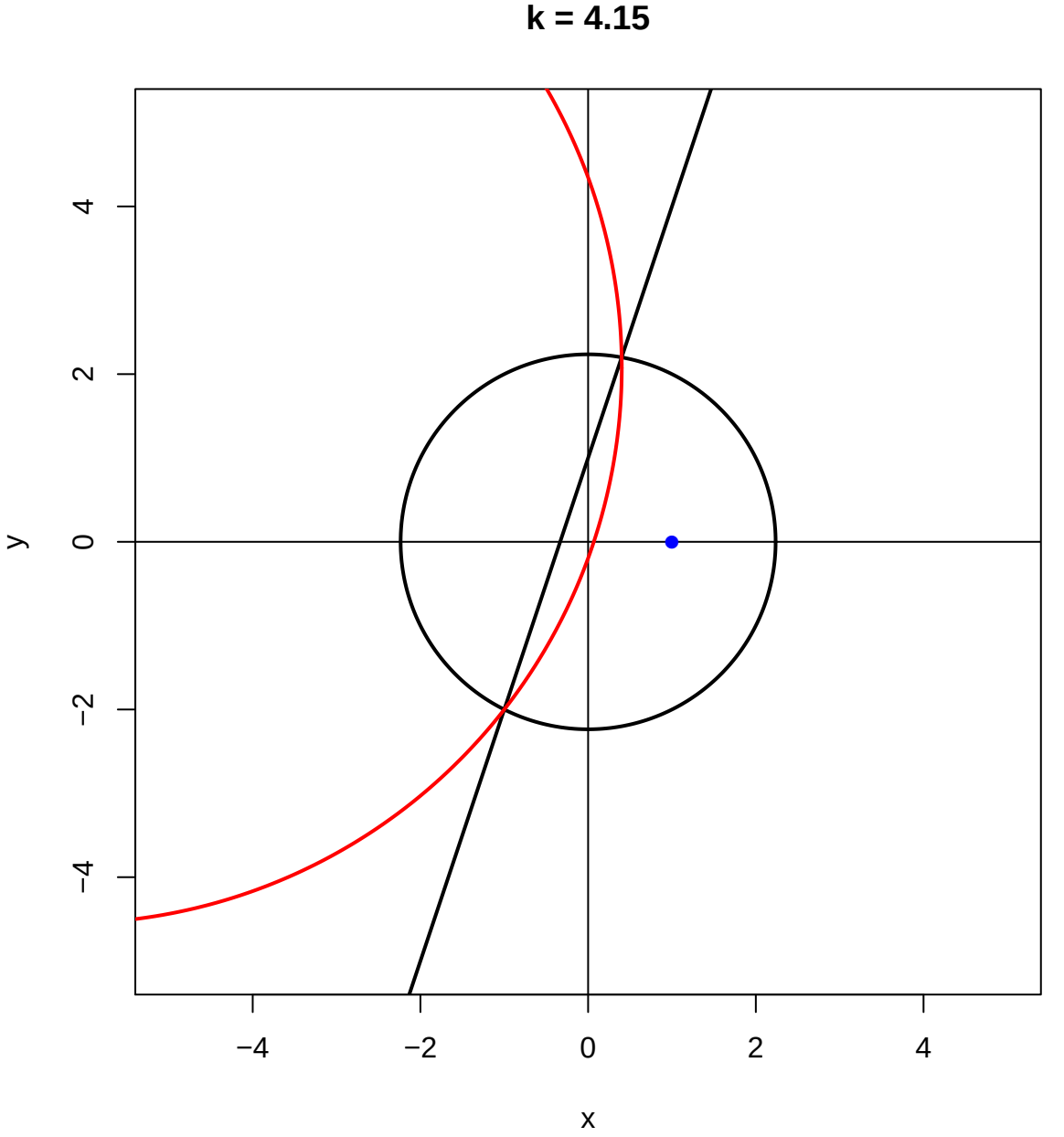
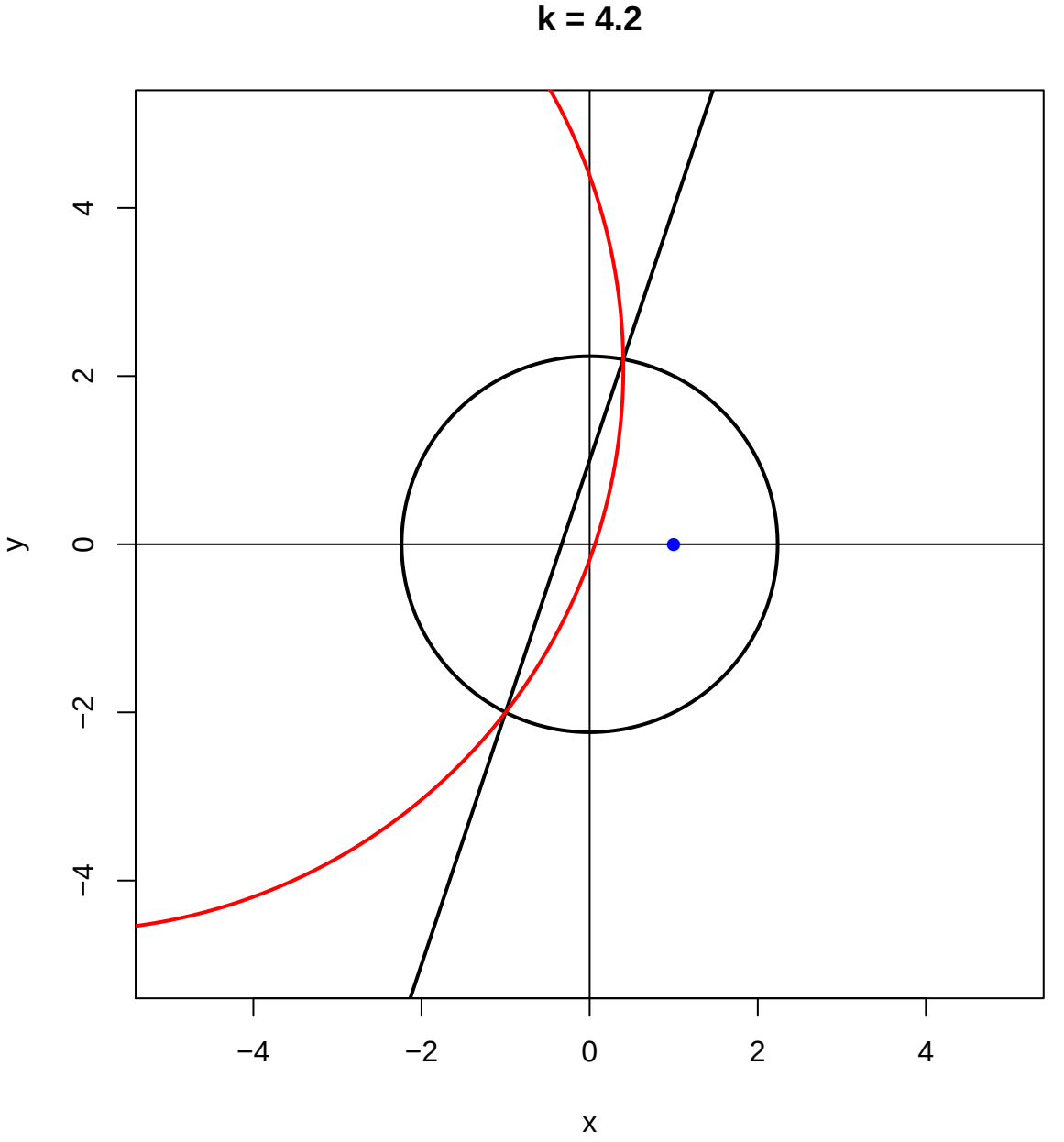
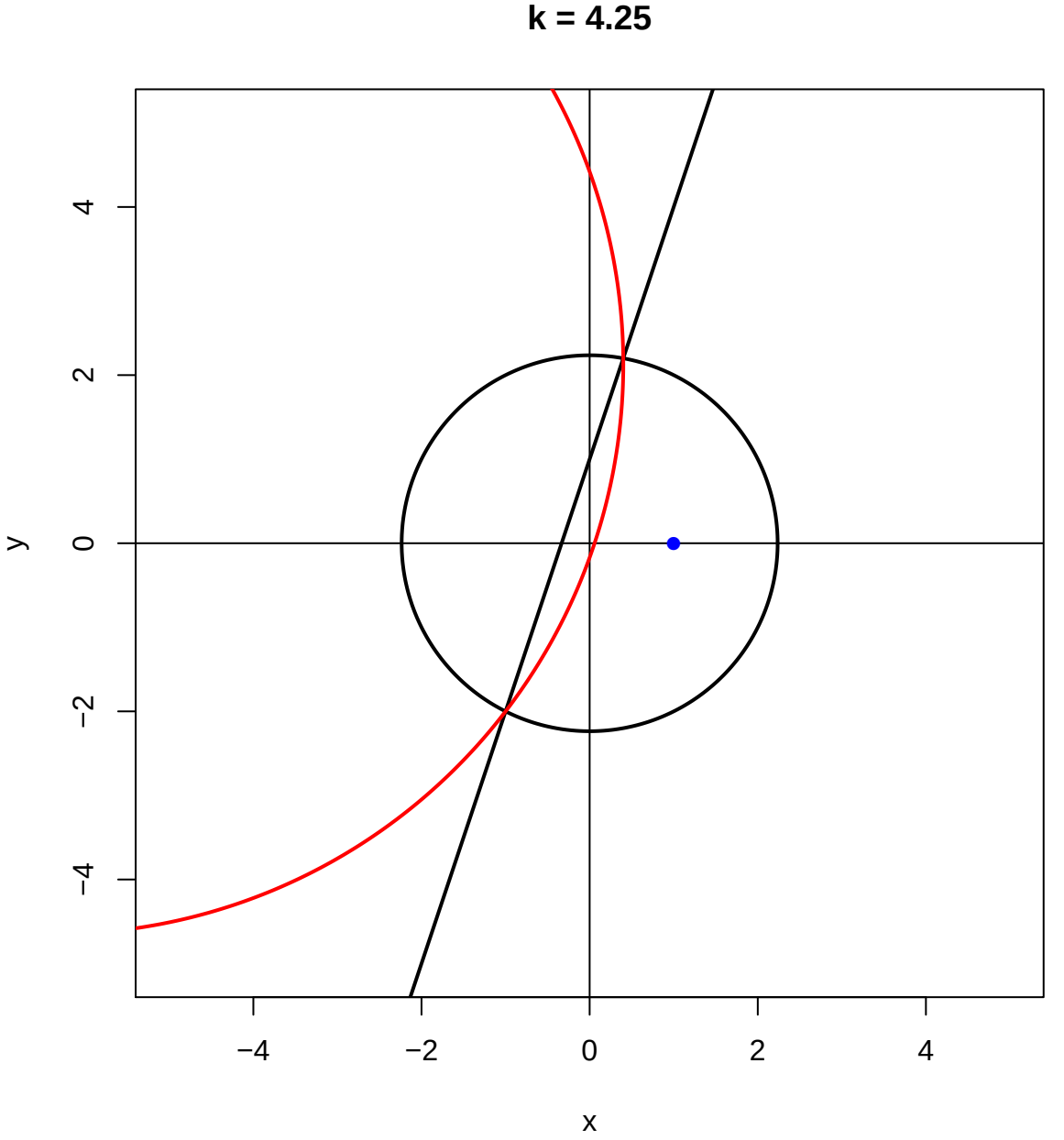
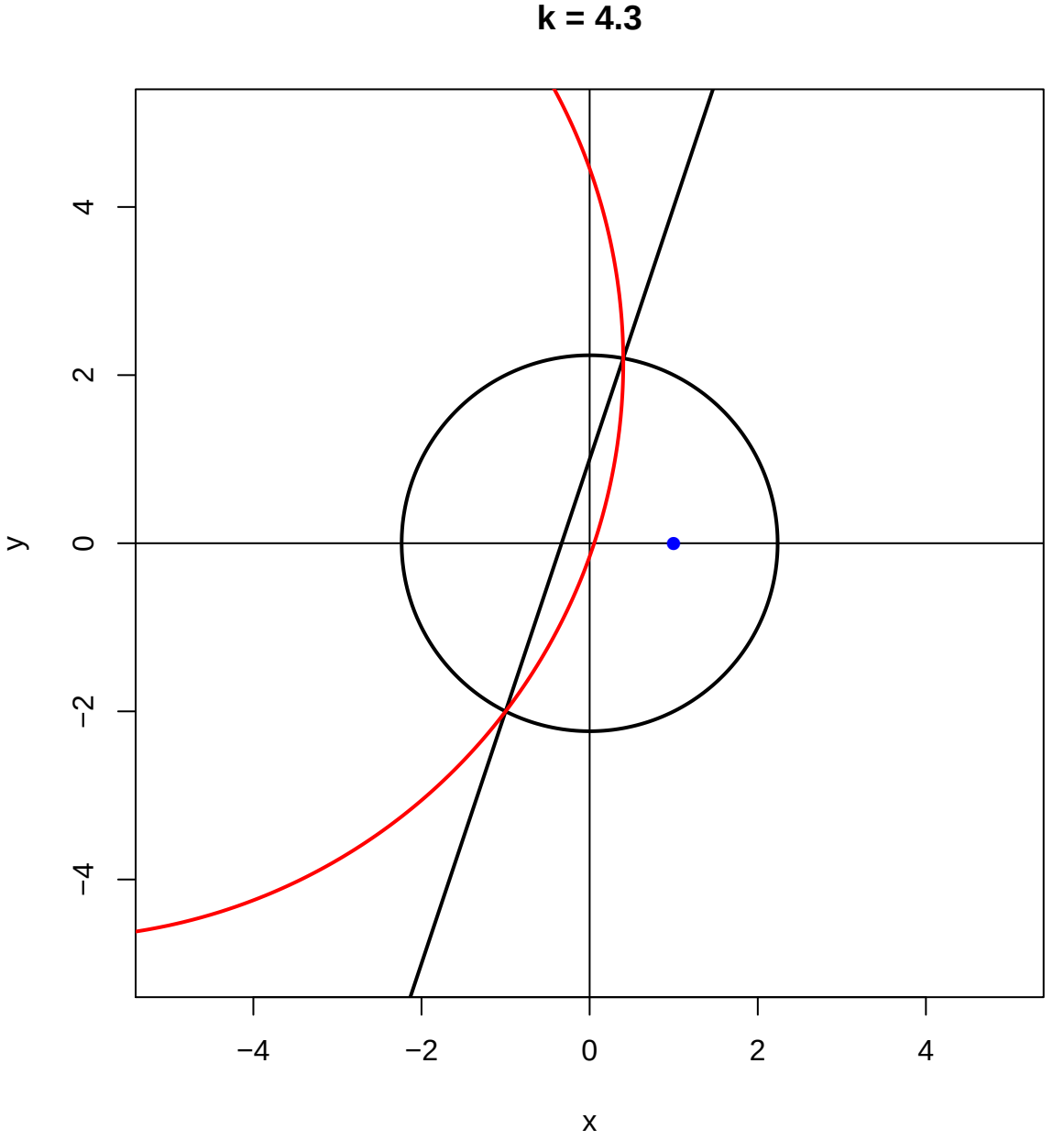

k = 4.05
y
x
4
2
0
−2
−4
−4
−2
0
2
4

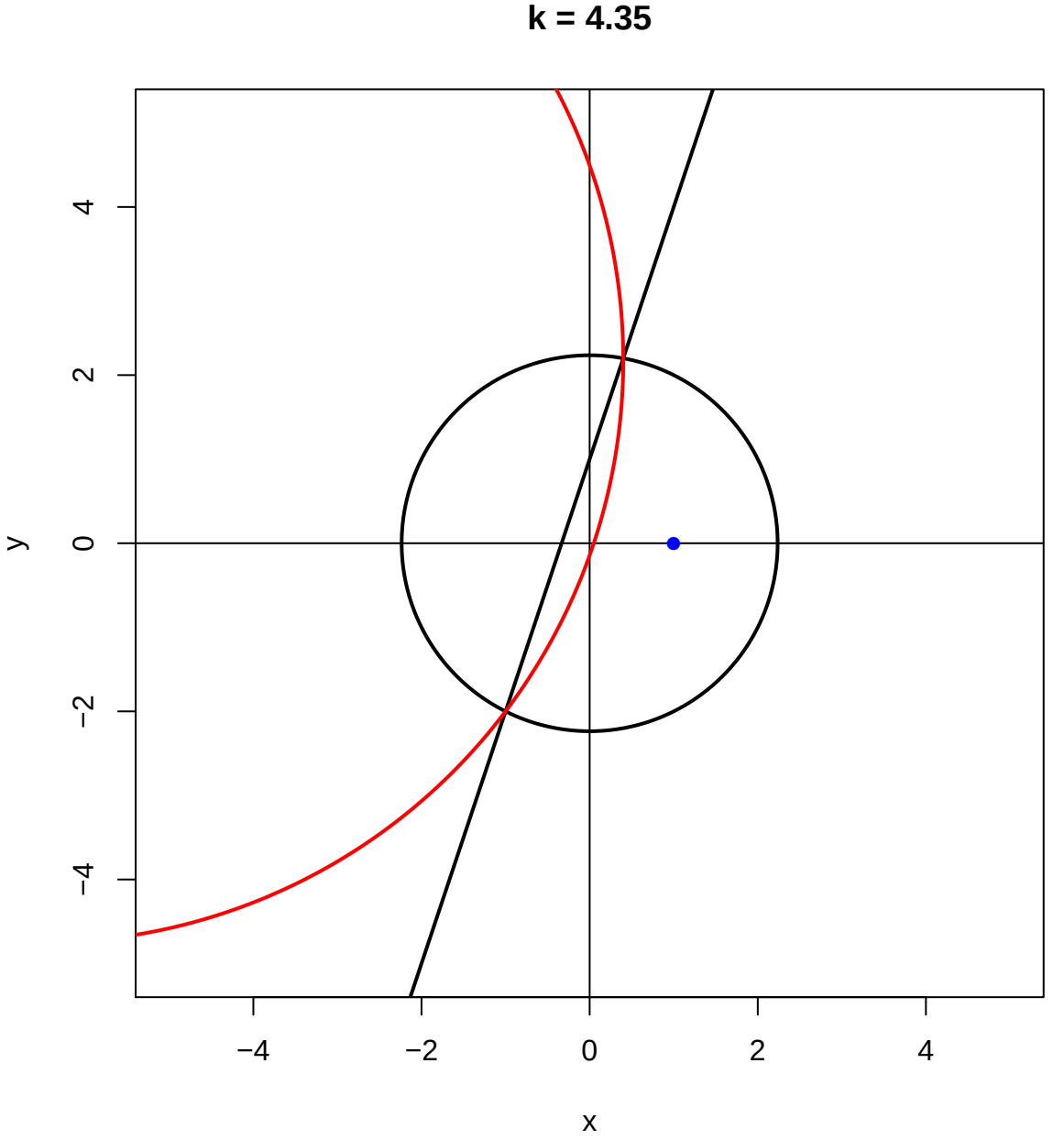

k = 4.1
y
x
4
2
0
−2
−4
−4
−2
0
2
4

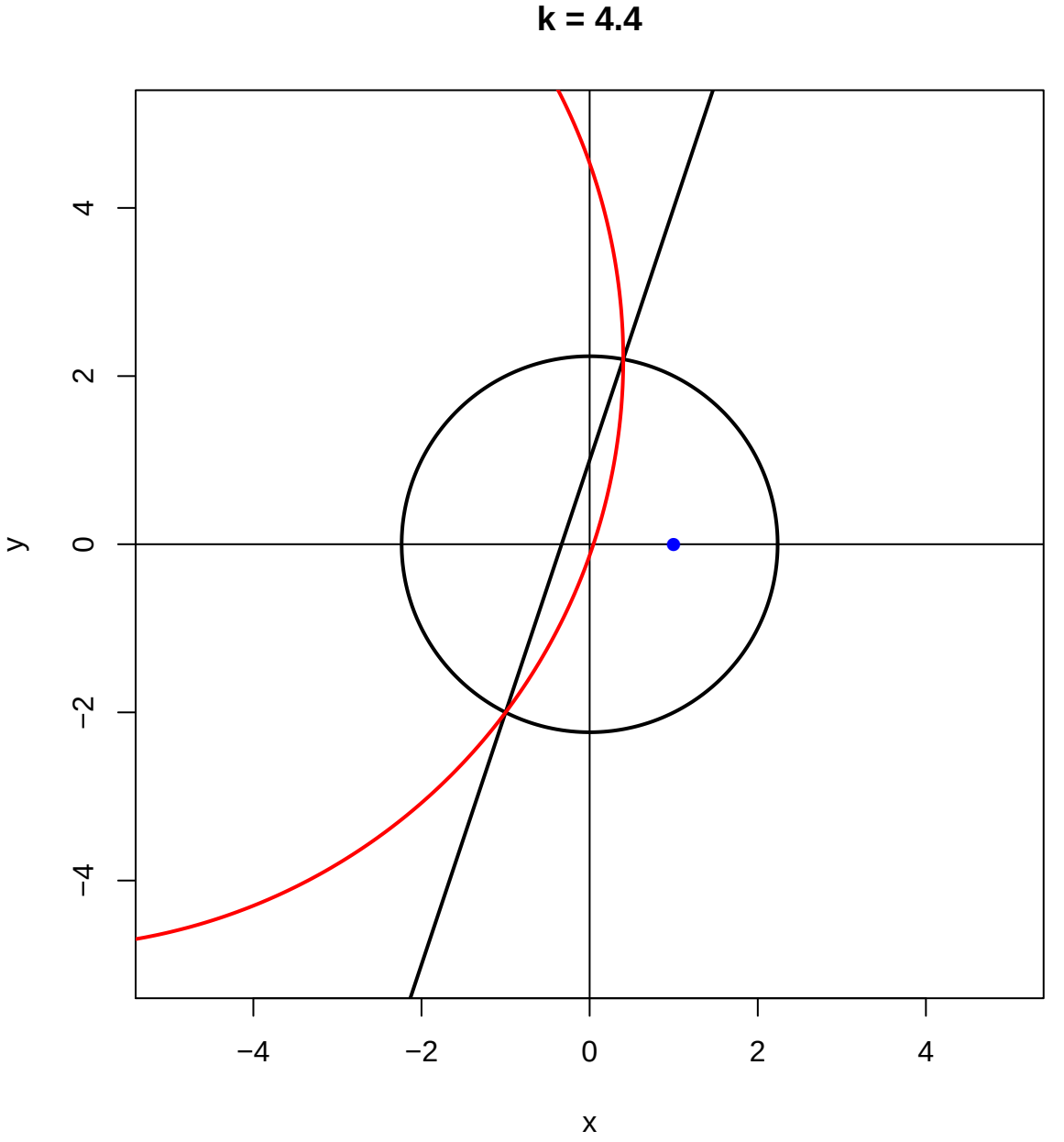

k = 4.15
y
x
4
2
0
−2
−4
−4
−2
0
2
4

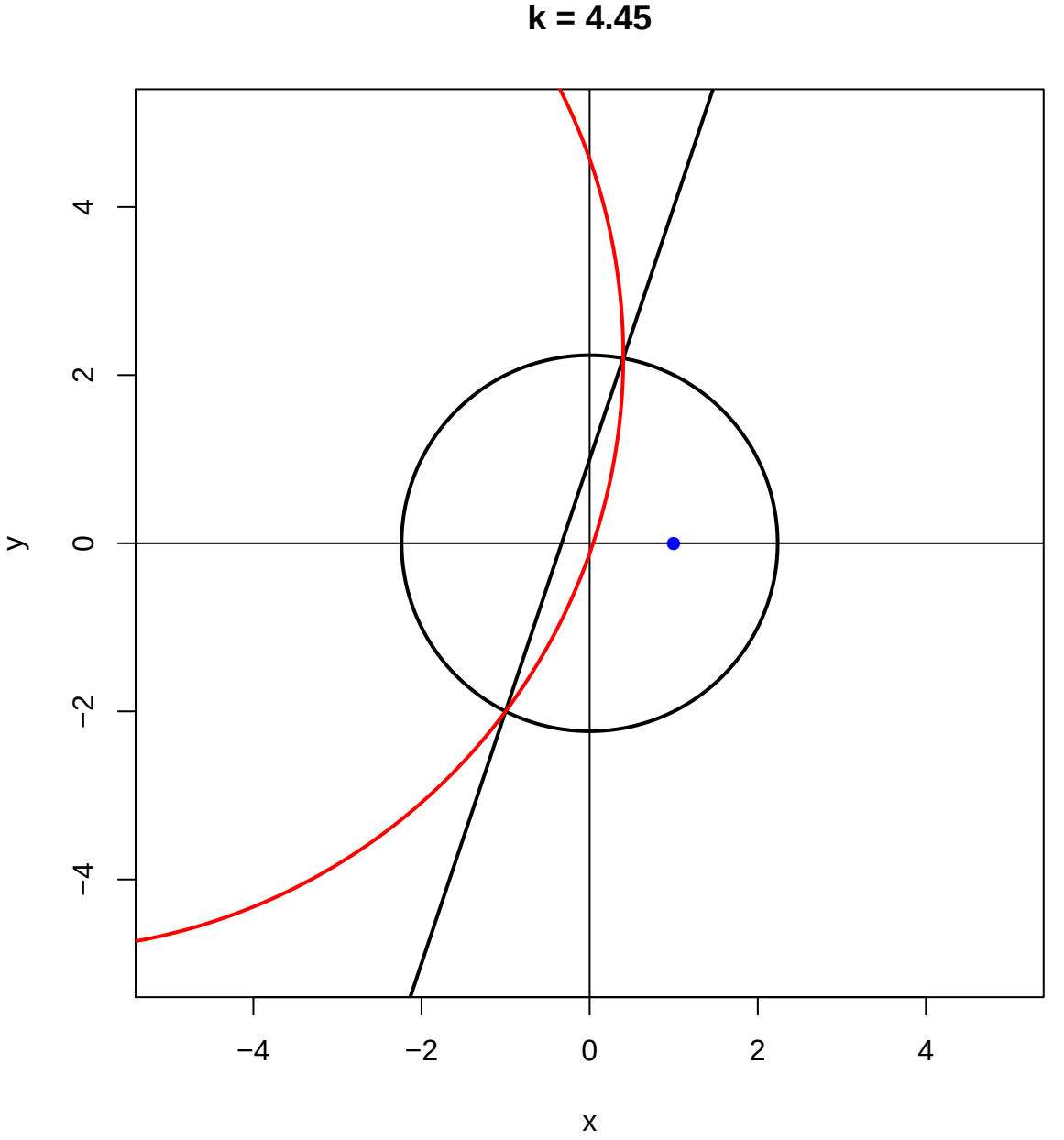

k = 4.2
y
x
4
2
0
−2
−4
−4
−2
0
2
4

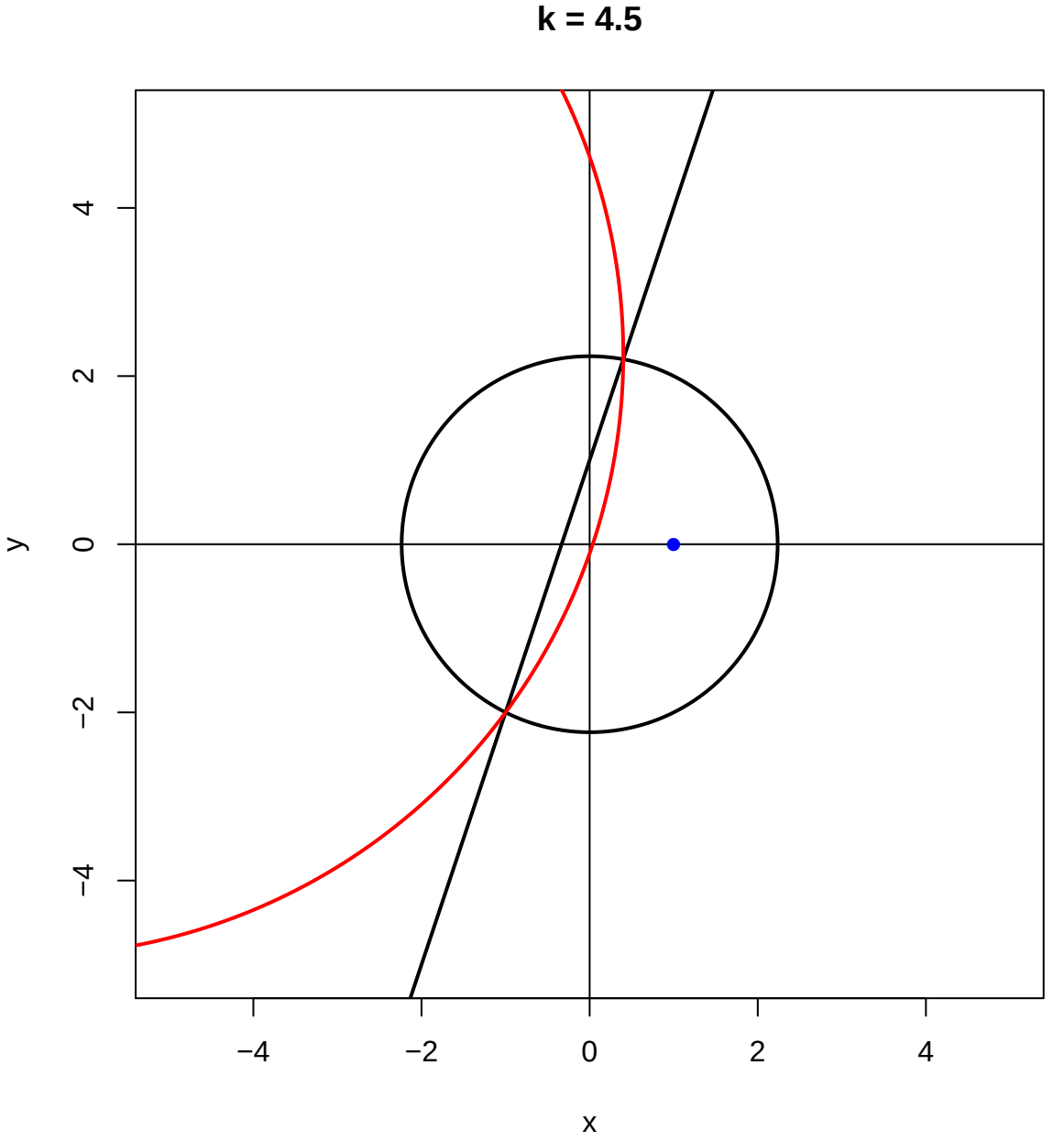

k = 4.25
y
x
4
2
0
−2
−4
−4
−2
0
2
4

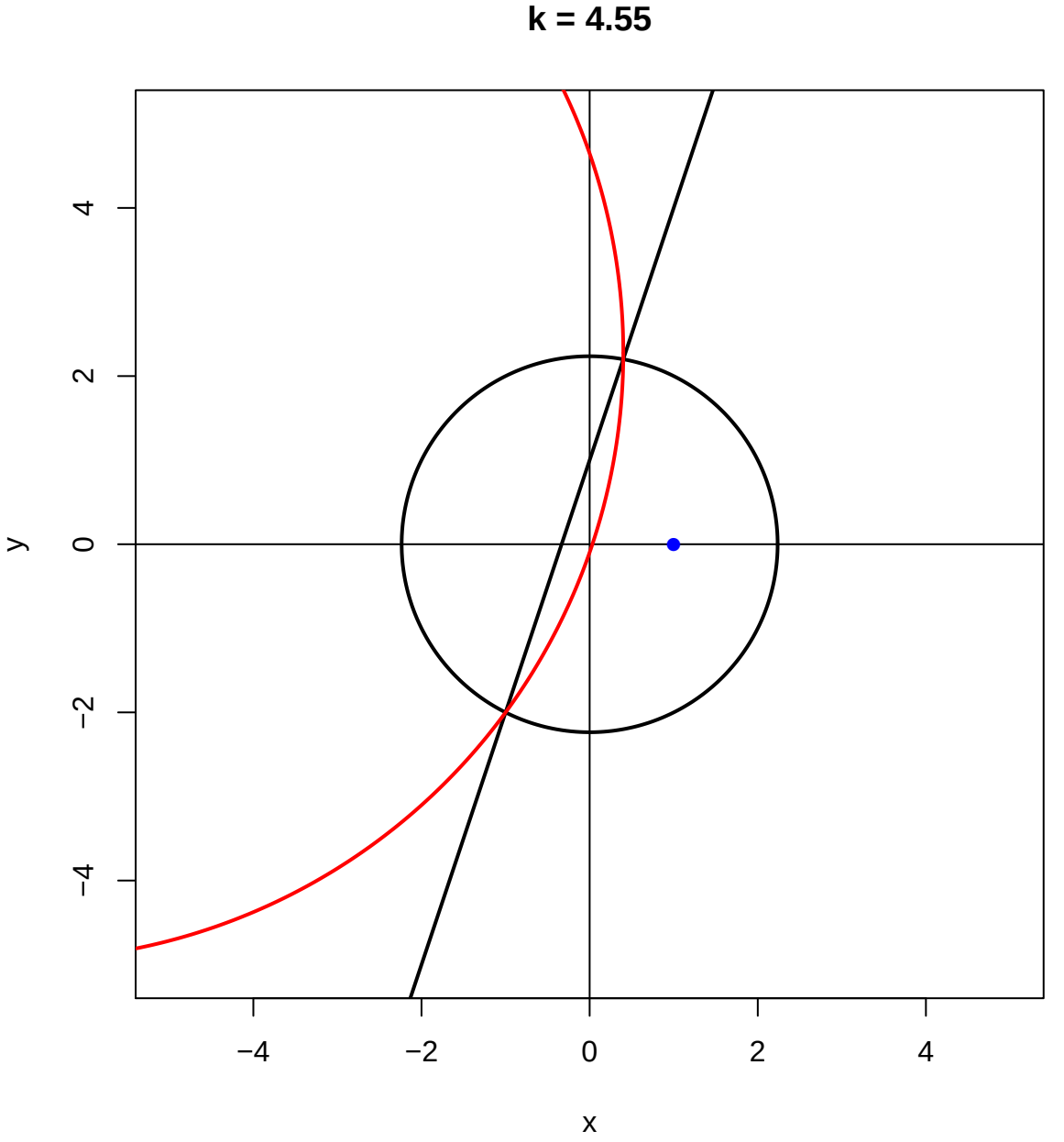

k = 4.3
y
x
4
2
0
−2
−4
−4
−2
0
2
4

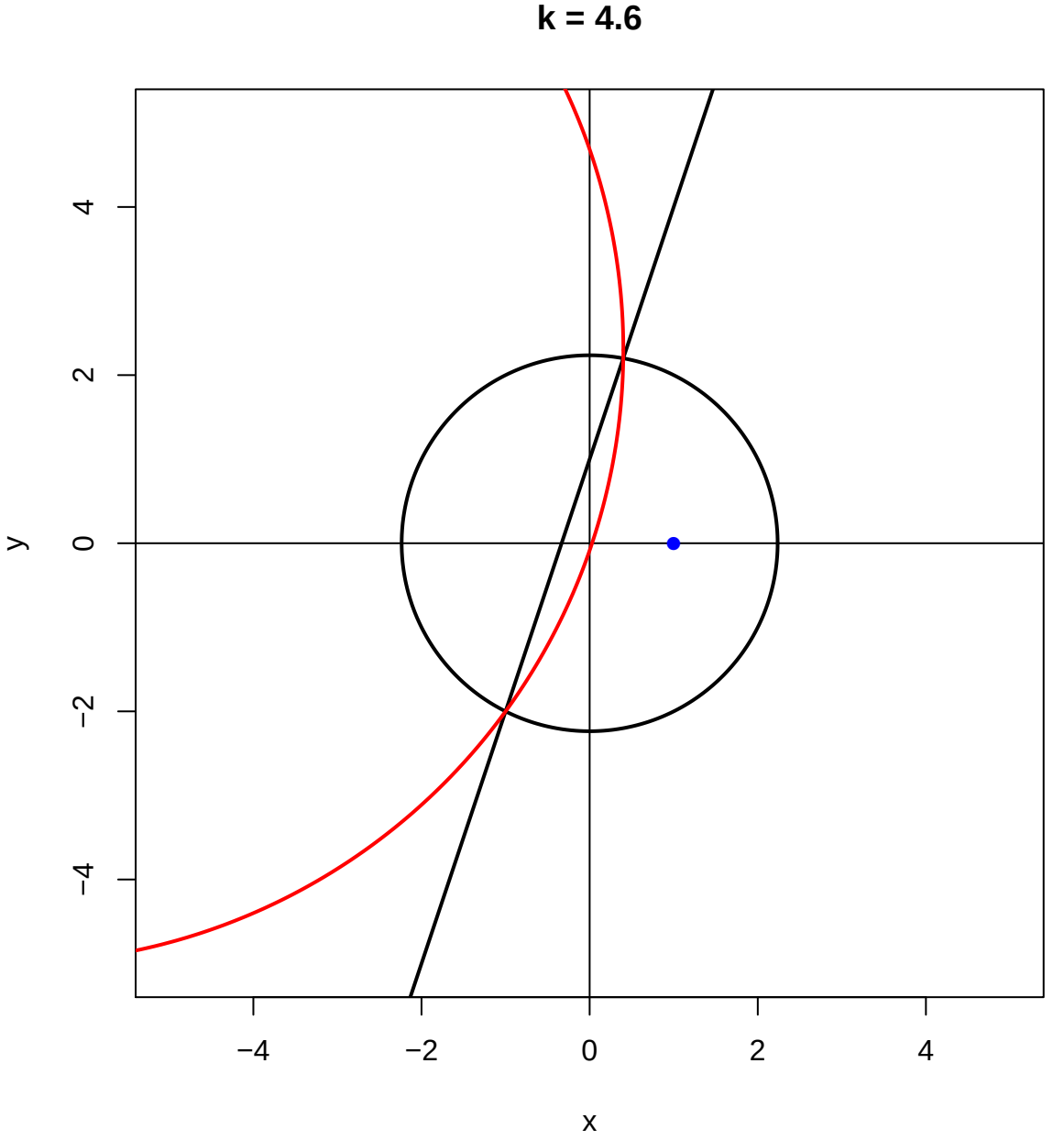

k = 4.35
y
x
4
2
0
−2
−4
−4
−2
0
2
4

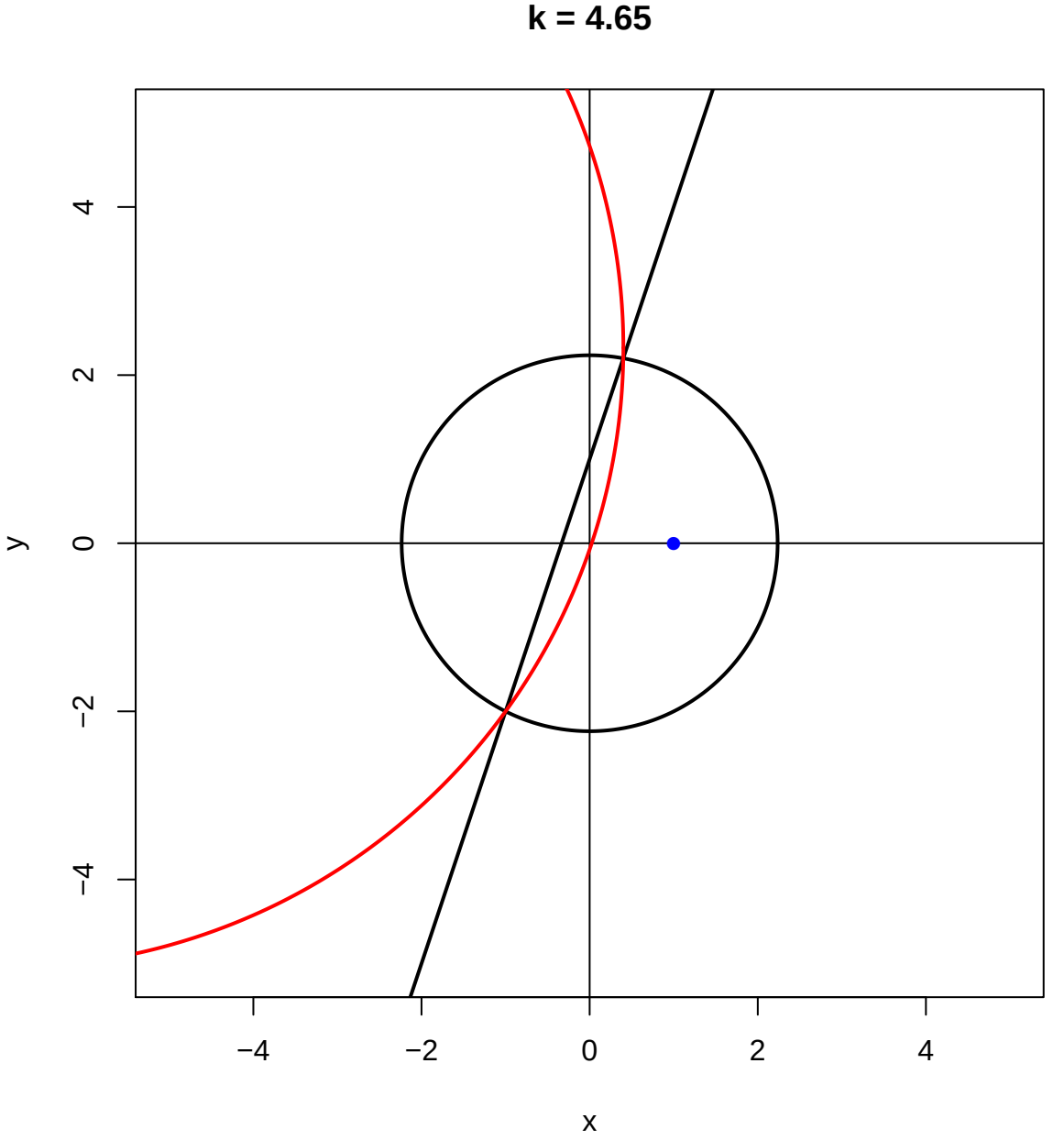

k = 4.4
y
x
4
2
0
−2
−4
−4
−2
0
2
4


k = 4.45
y
x
4
2
0
−2
−4
−4
−2
0
2
4


k = 4.5
y
x
4
2
0
−2
−4
−4
−2
0
2
4


k = 4.55
y
x
4
2
0
−2
−4
−4
−2
0
2
4


k = 4.6
y
x
4
2
0
−2
−4
−4
−2
0
2
4


k = 4.65
y
x
4
2
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−2
−4
−4
−2
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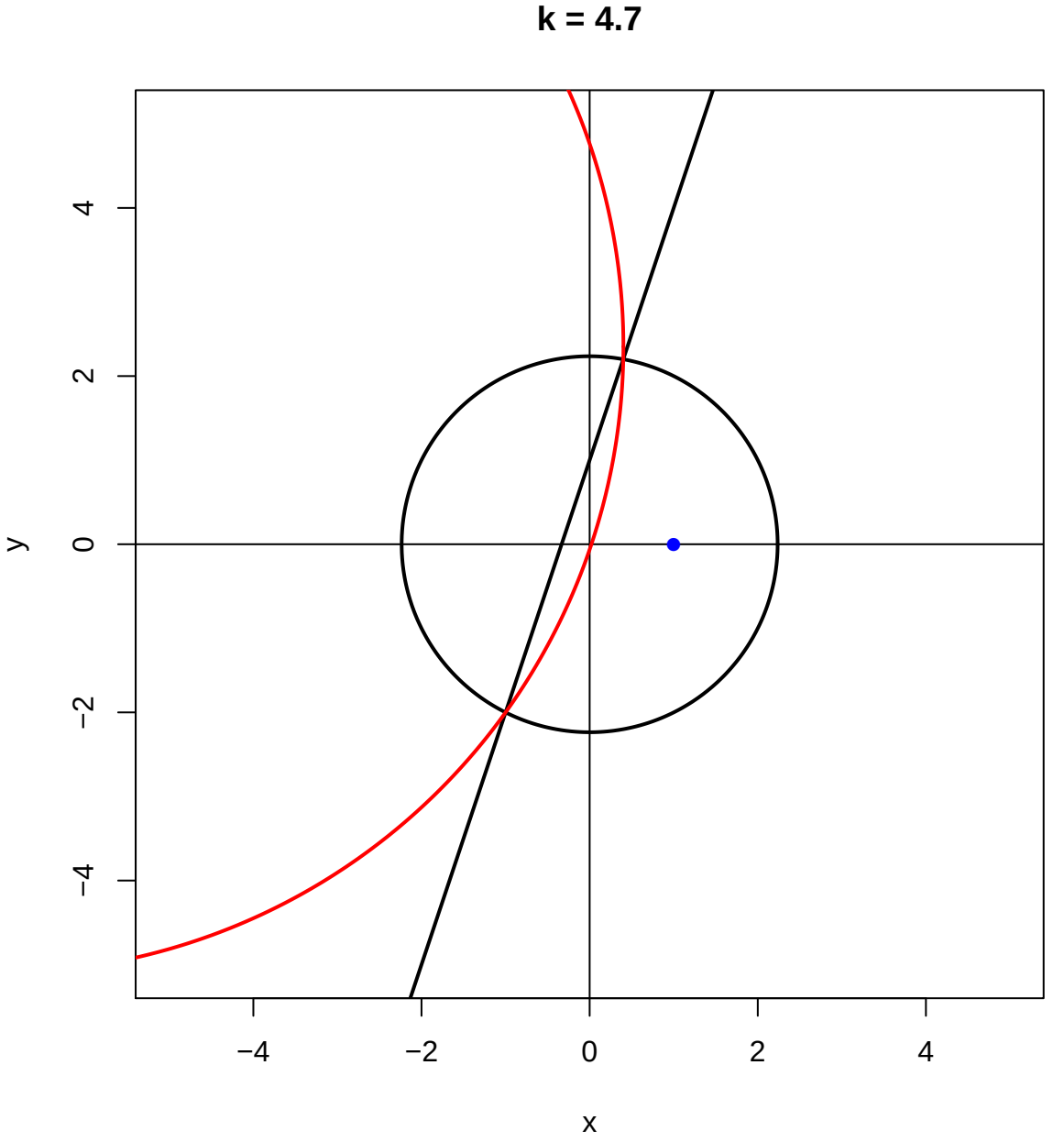
2
4


k = 4.7
y
x
4
2
0
−2
−4
−4
−2
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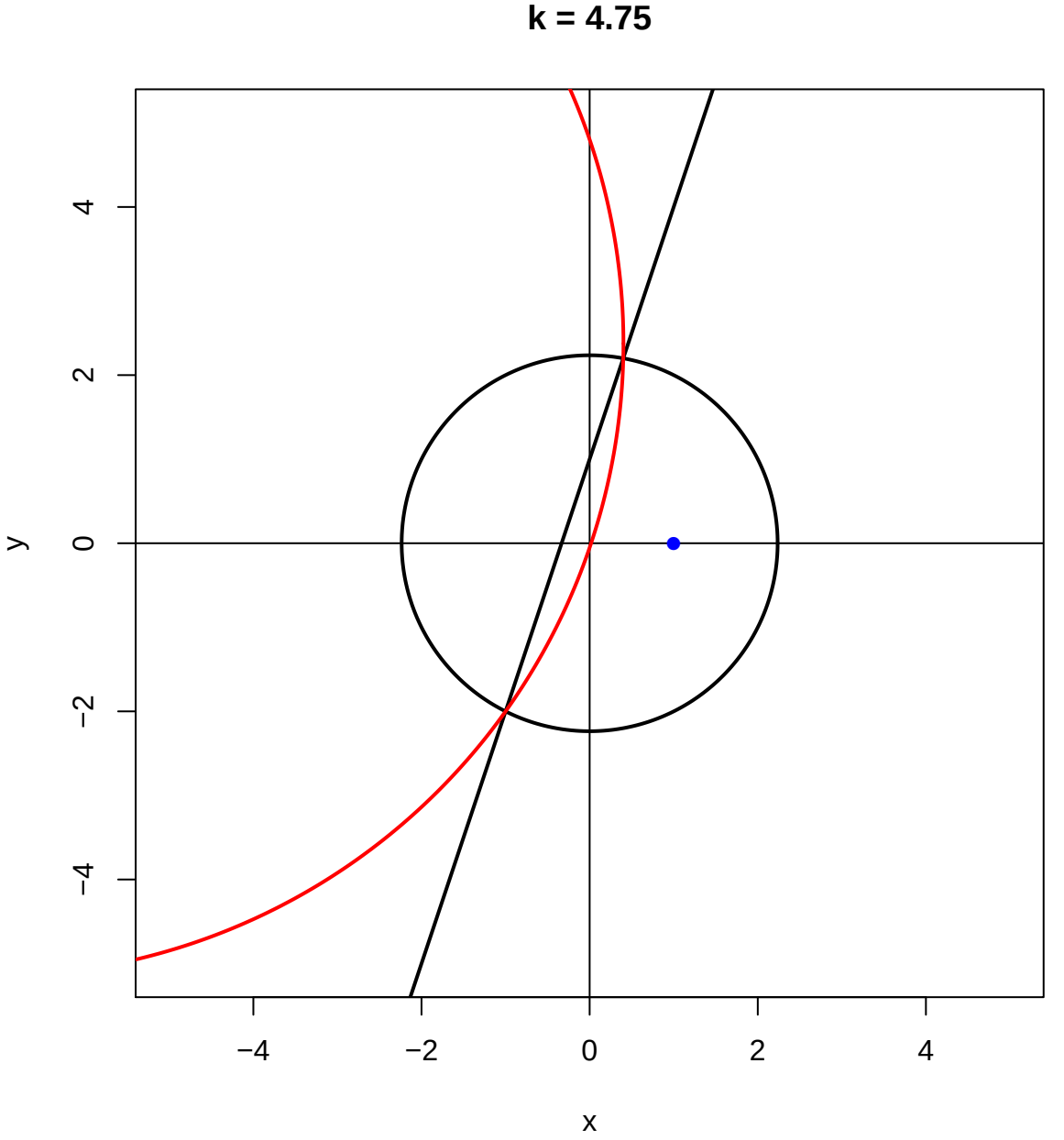
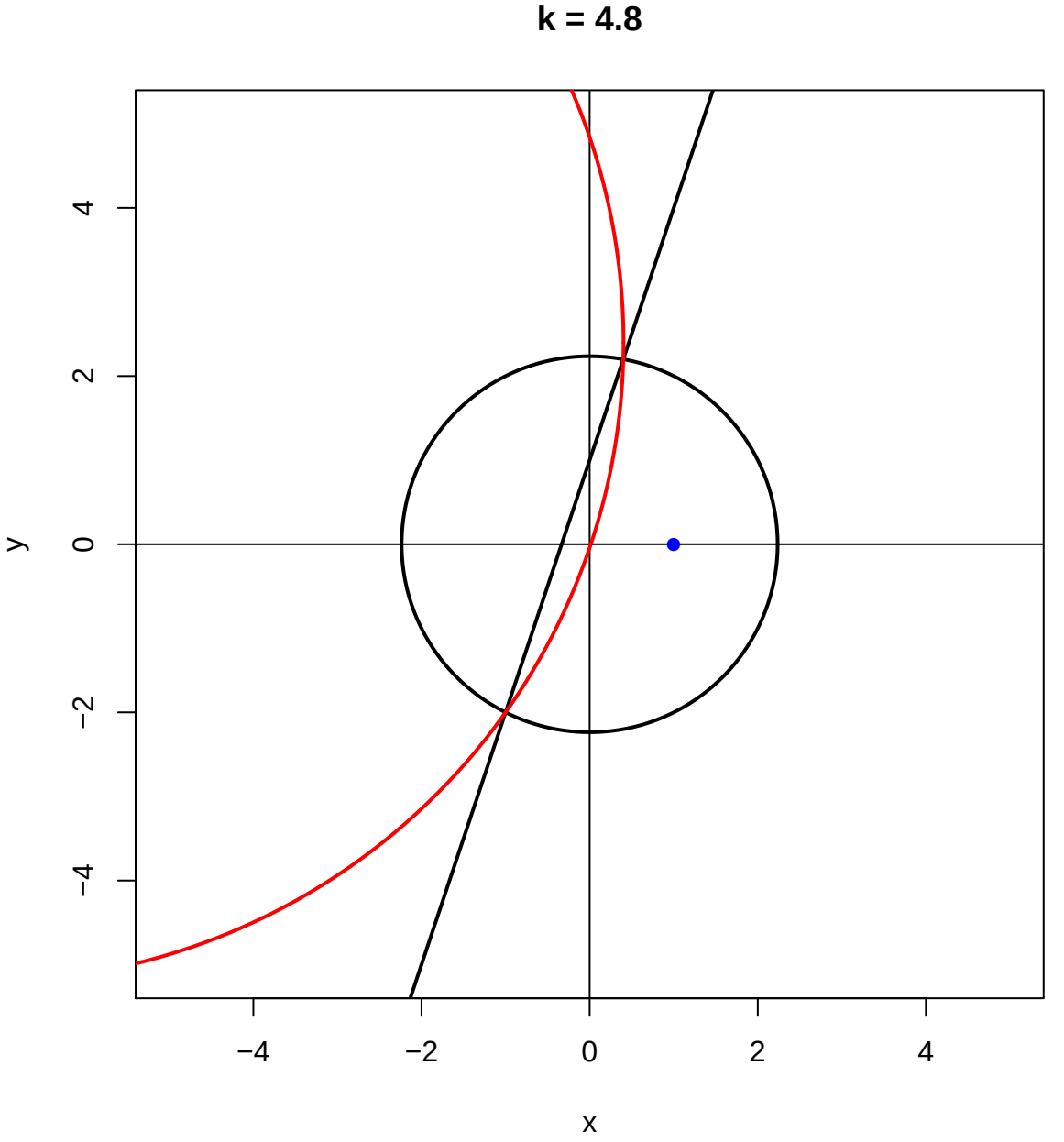
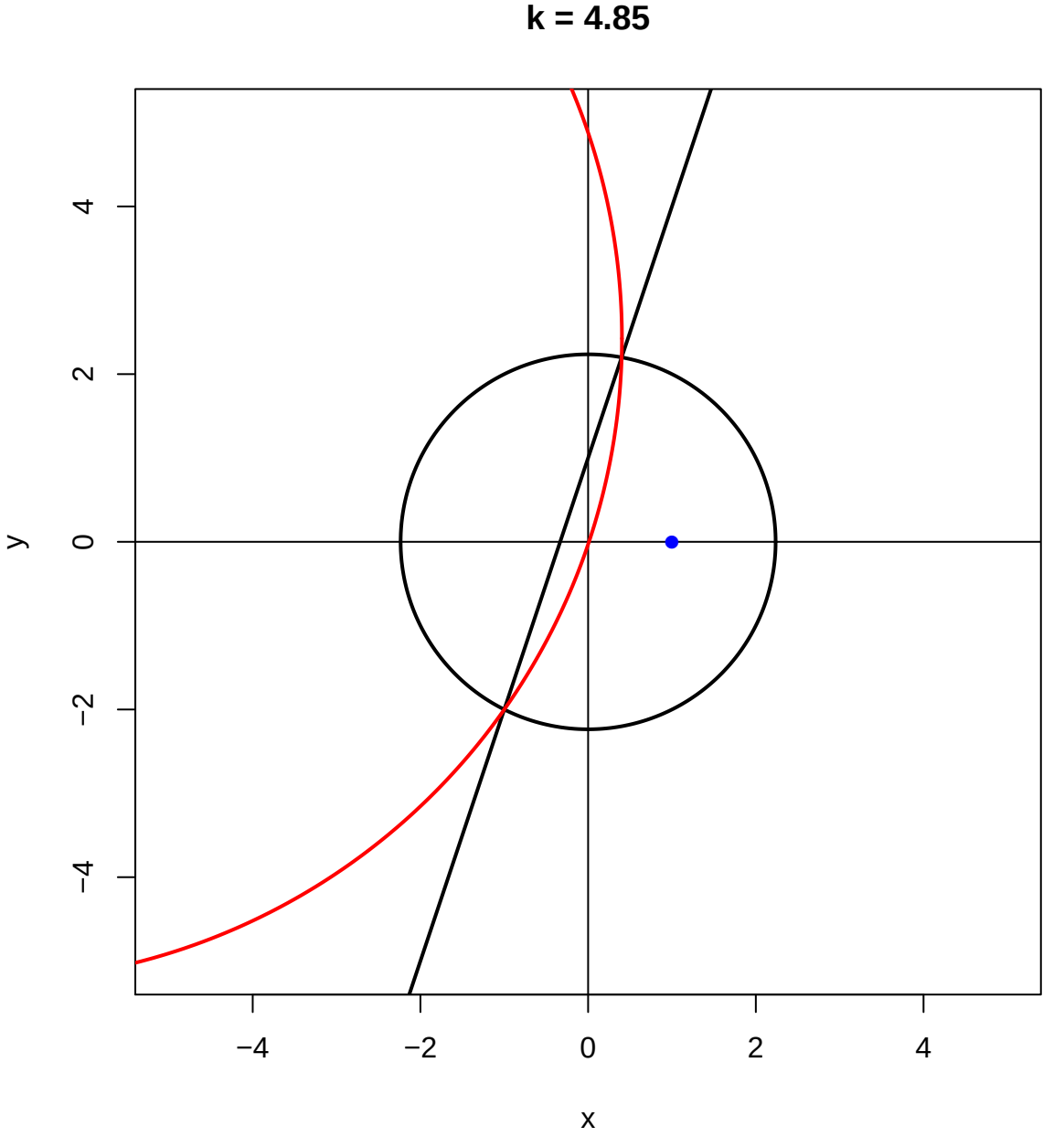
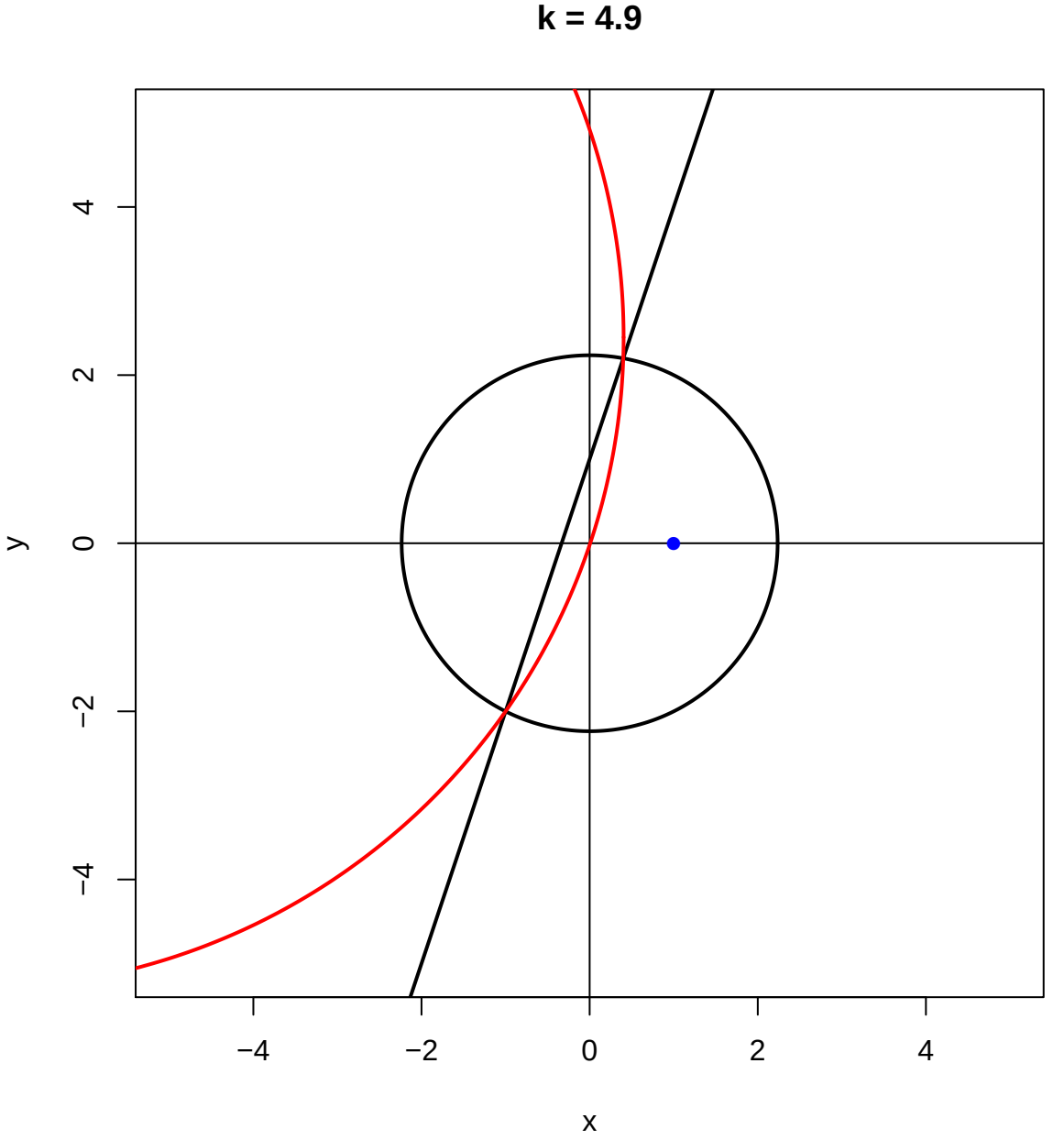
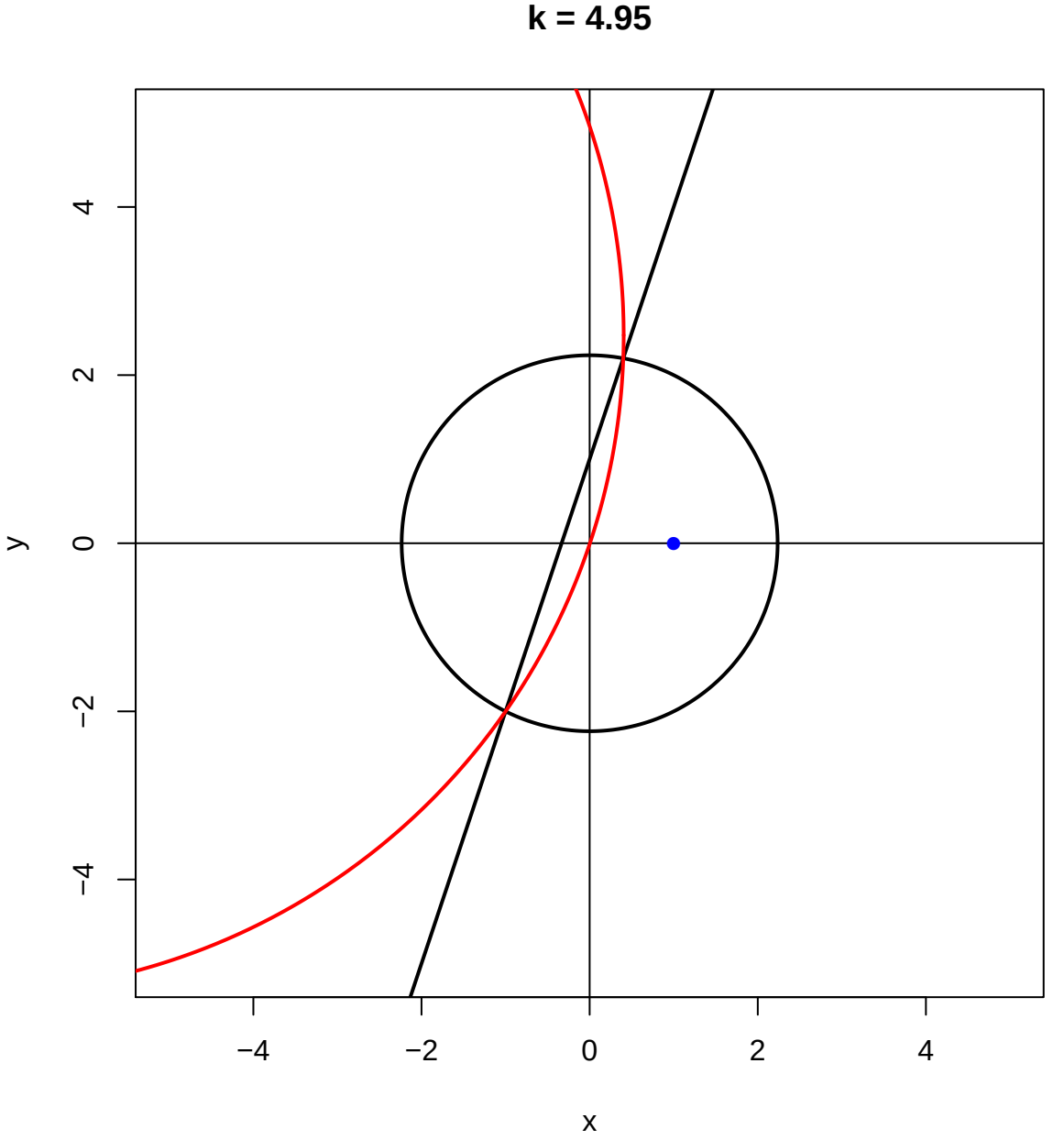
2
4


k = 4.75
y
x
4
2
0
−2
−4
−4
−2
0
2
4


k = 4.8
y
x
4
2
0
−2
−4
−4
−2
0
2
4


k = 4.85
y
x
4
2
0
−2
−4
−4
−2
0
2
4


k = 4.9
y
x
4
2
0
−2
−4
−4
−2
0
2
4


k = 4.95
y
x
4
2
0
−2
−4
−4
−2
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2
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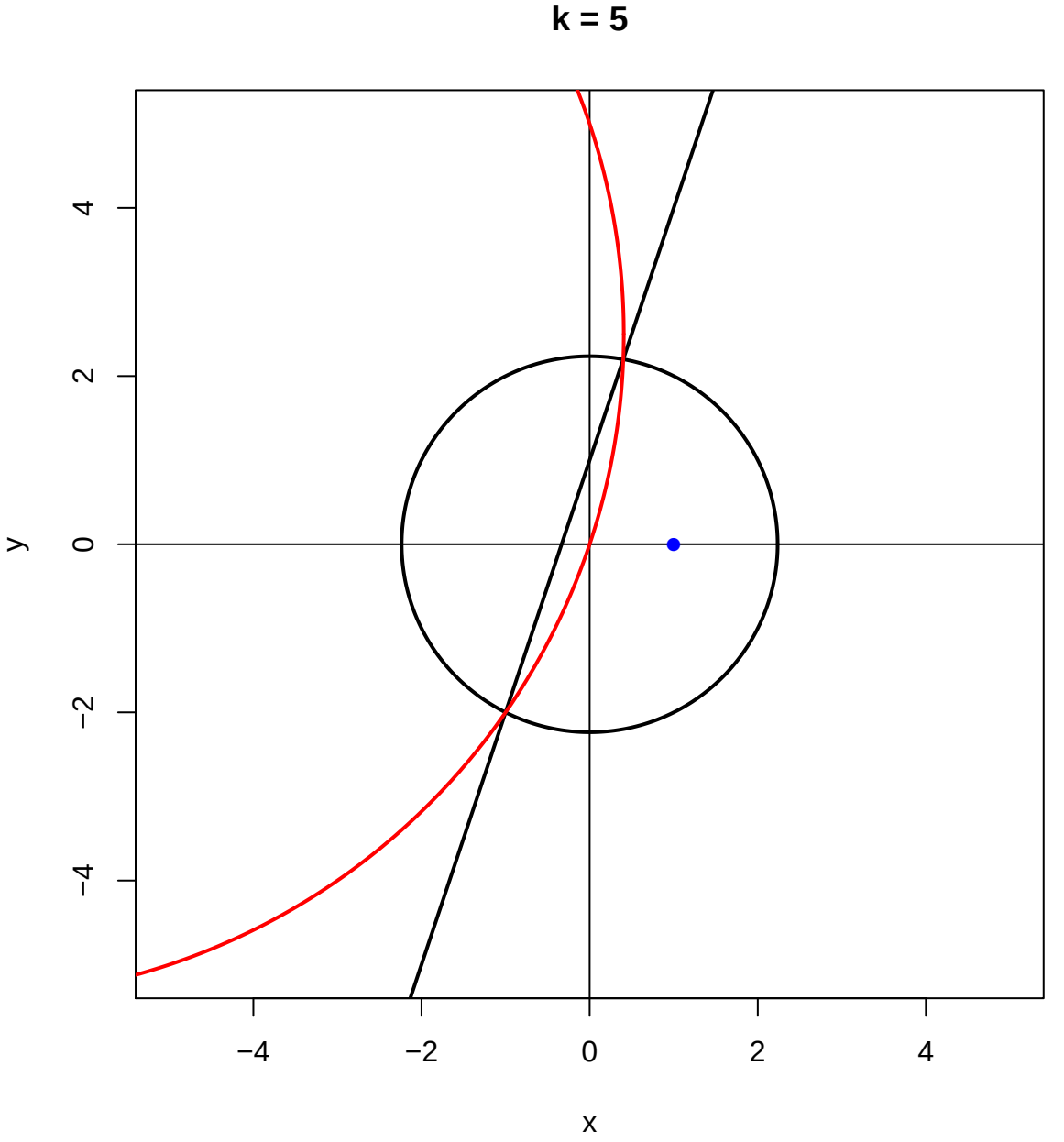
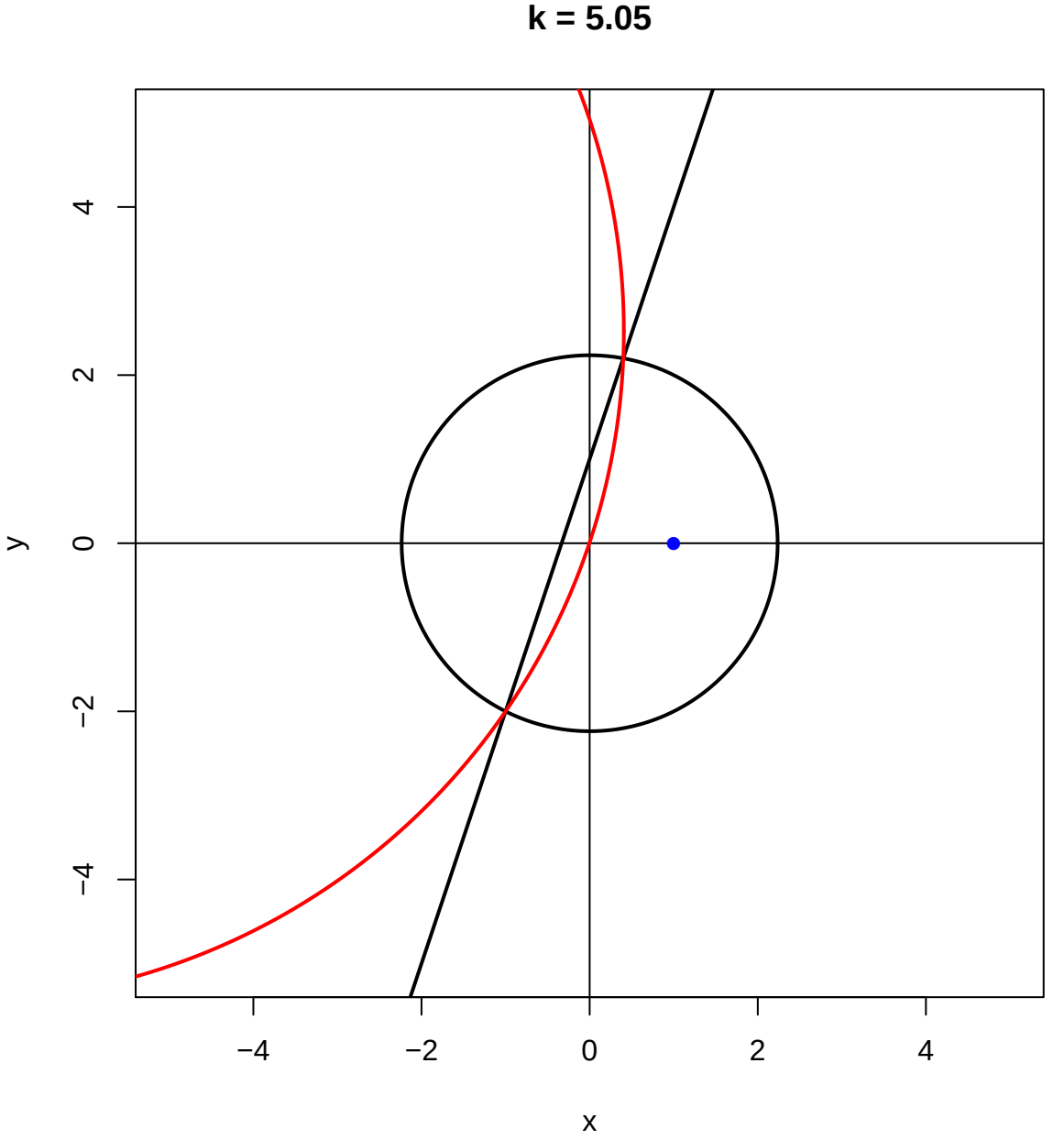
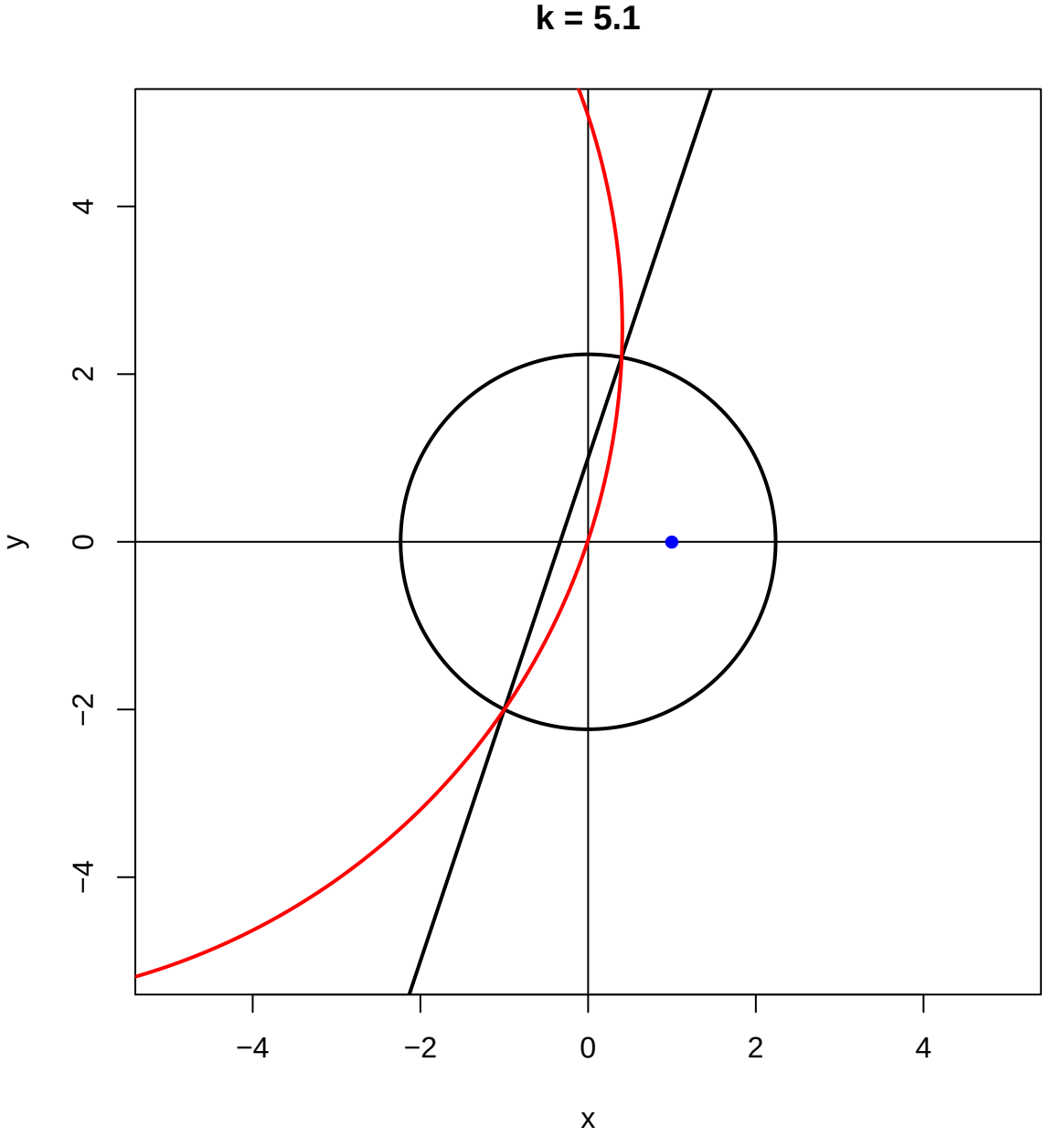
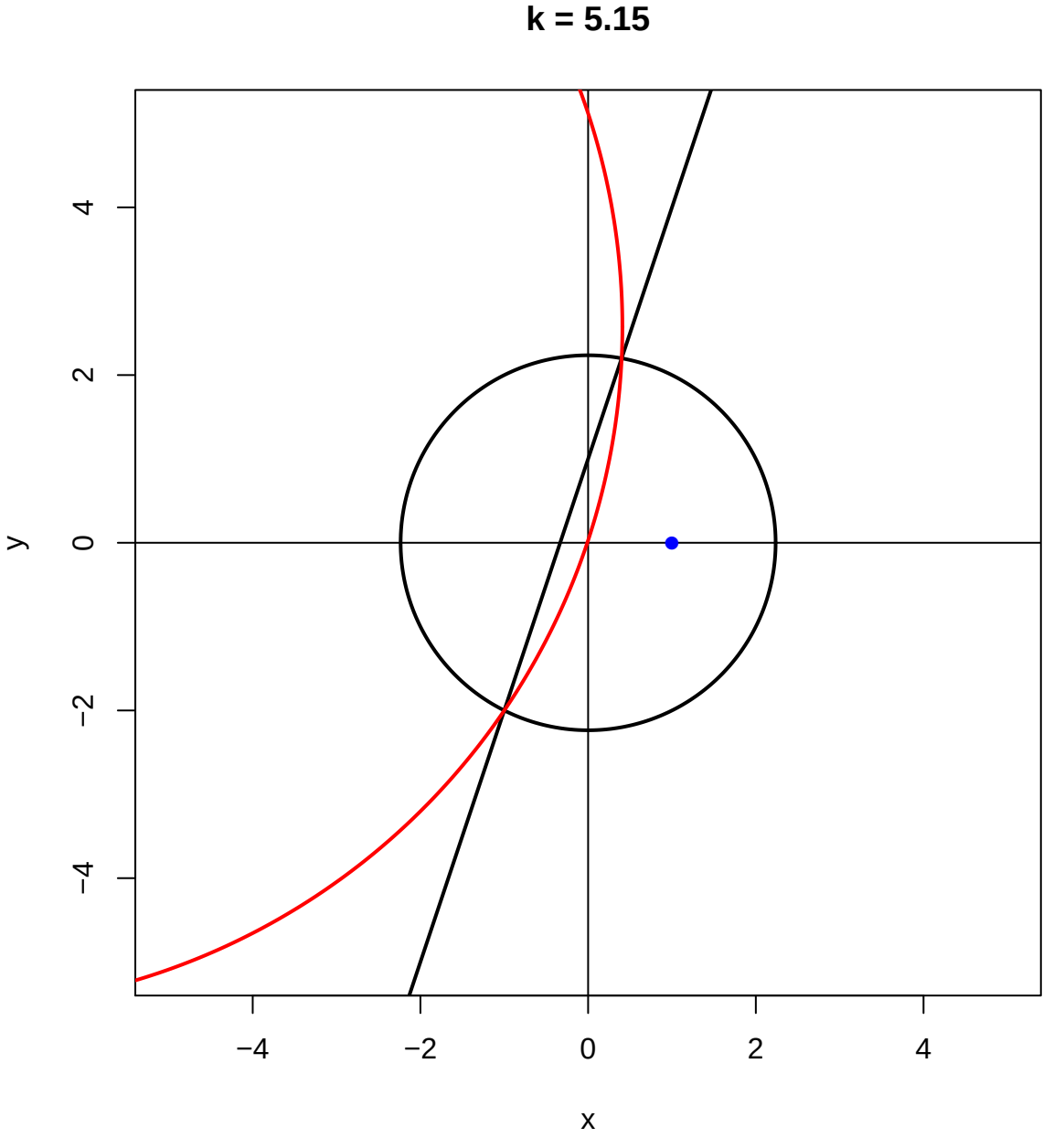

k = 5
y
x
4
2
0
−2
−4
−4
−2
0
2
4


k = 5.05
y
x
4
2
0
−2
−4
−4
−2
0
2
4


k = 5.1
y
x
4
2
0
−2
−4
−4
−2
0
2
4


k = 5.15
y
x
4
2
0
−2
−4
−4
−2
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2
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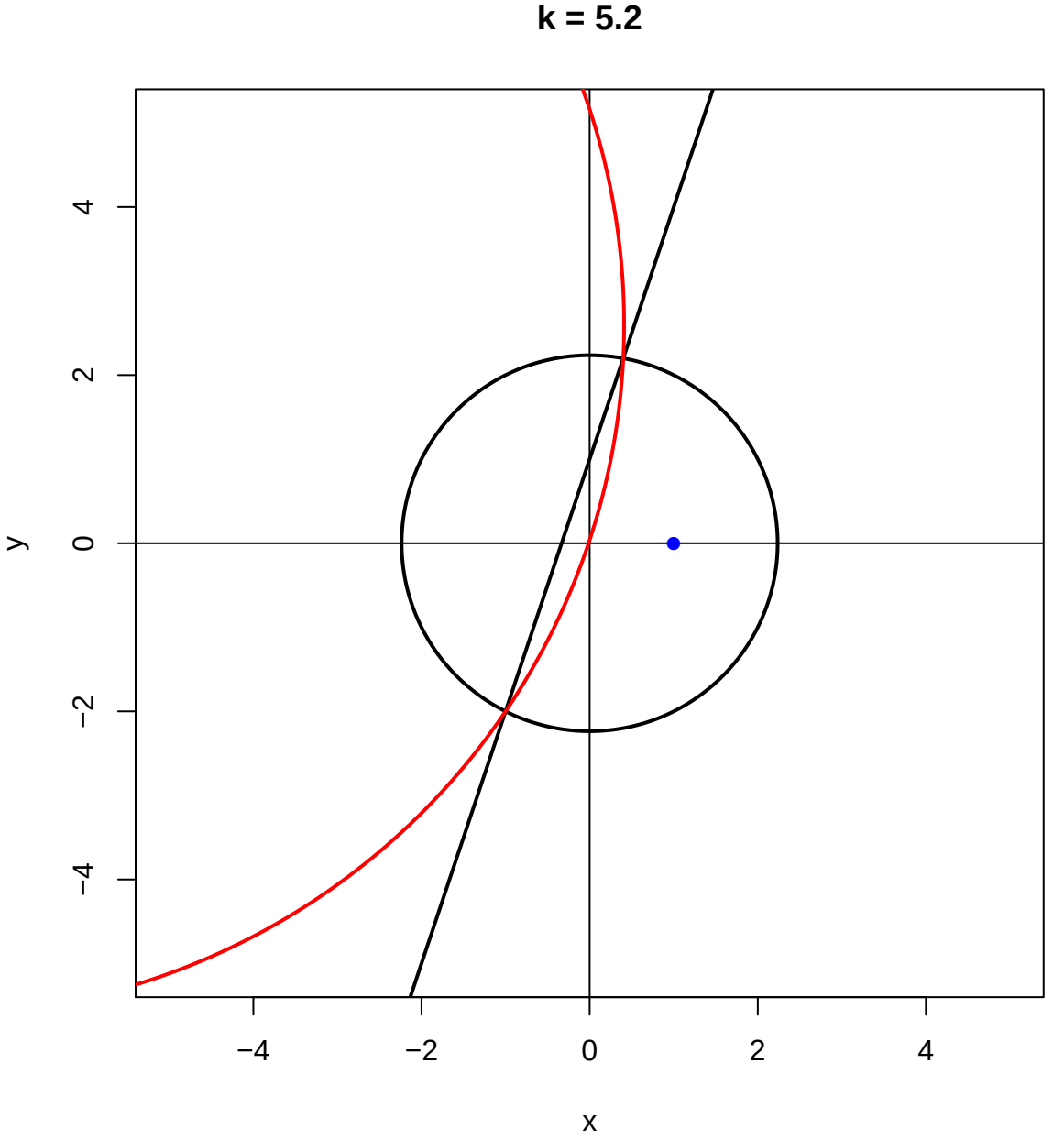
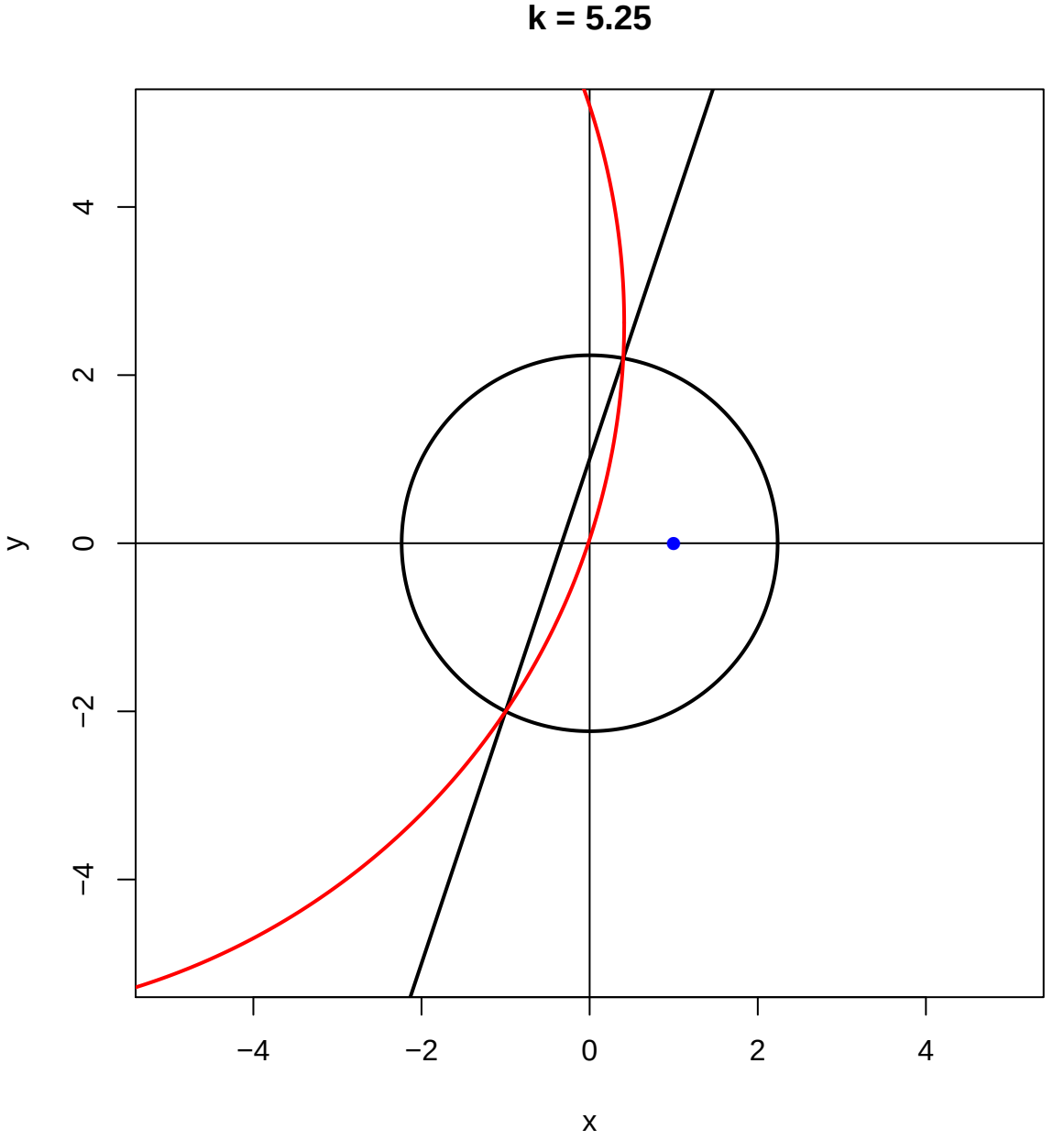

k = 5.2
y
x
4
2
0
−2
−4
−4
−2
0
2
4


k = 5.25
y
x
4
2
0
−2
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−2
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2
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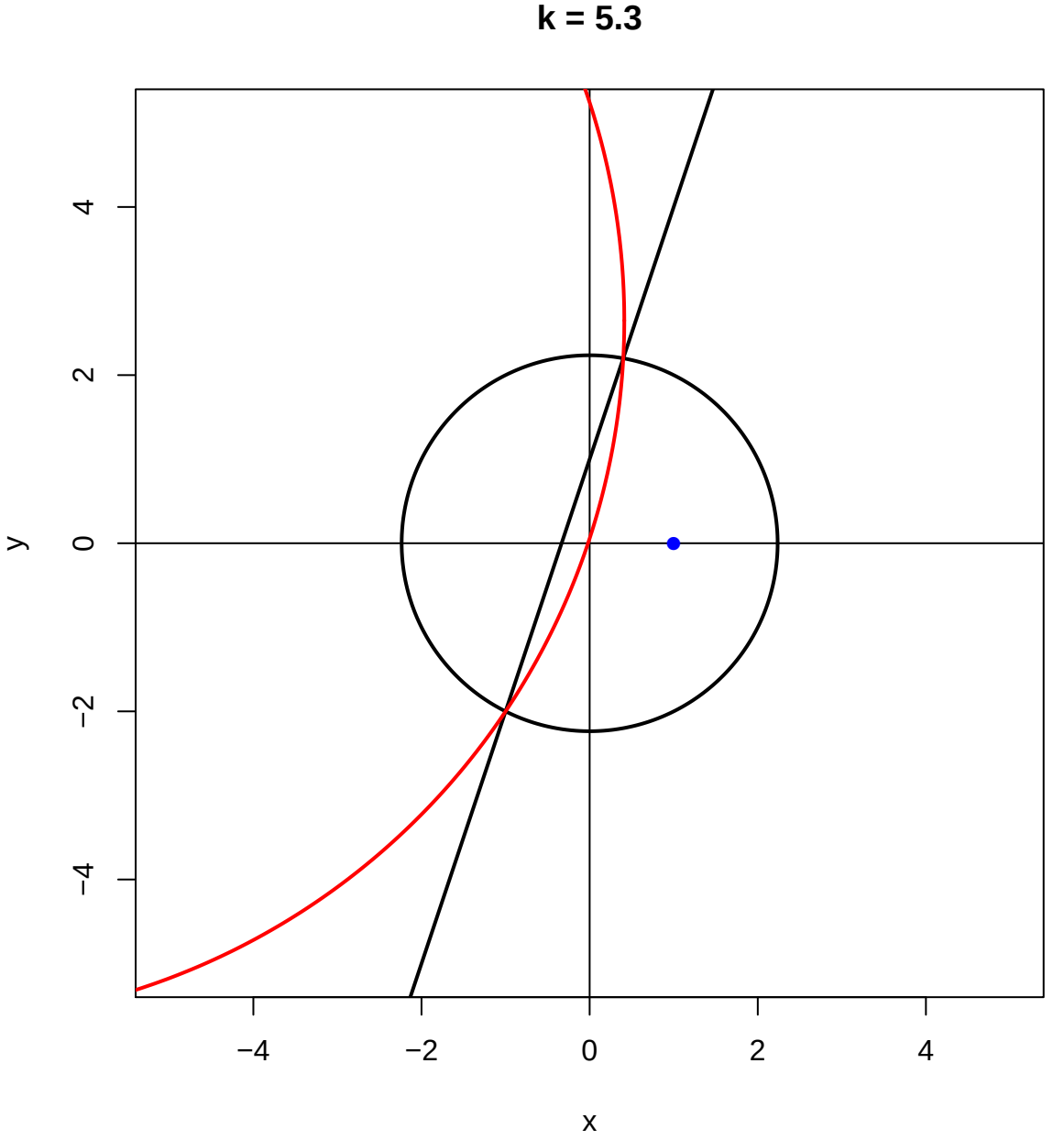
k = 5.3
y
x
4
2
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−2
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−4
−2
0
2
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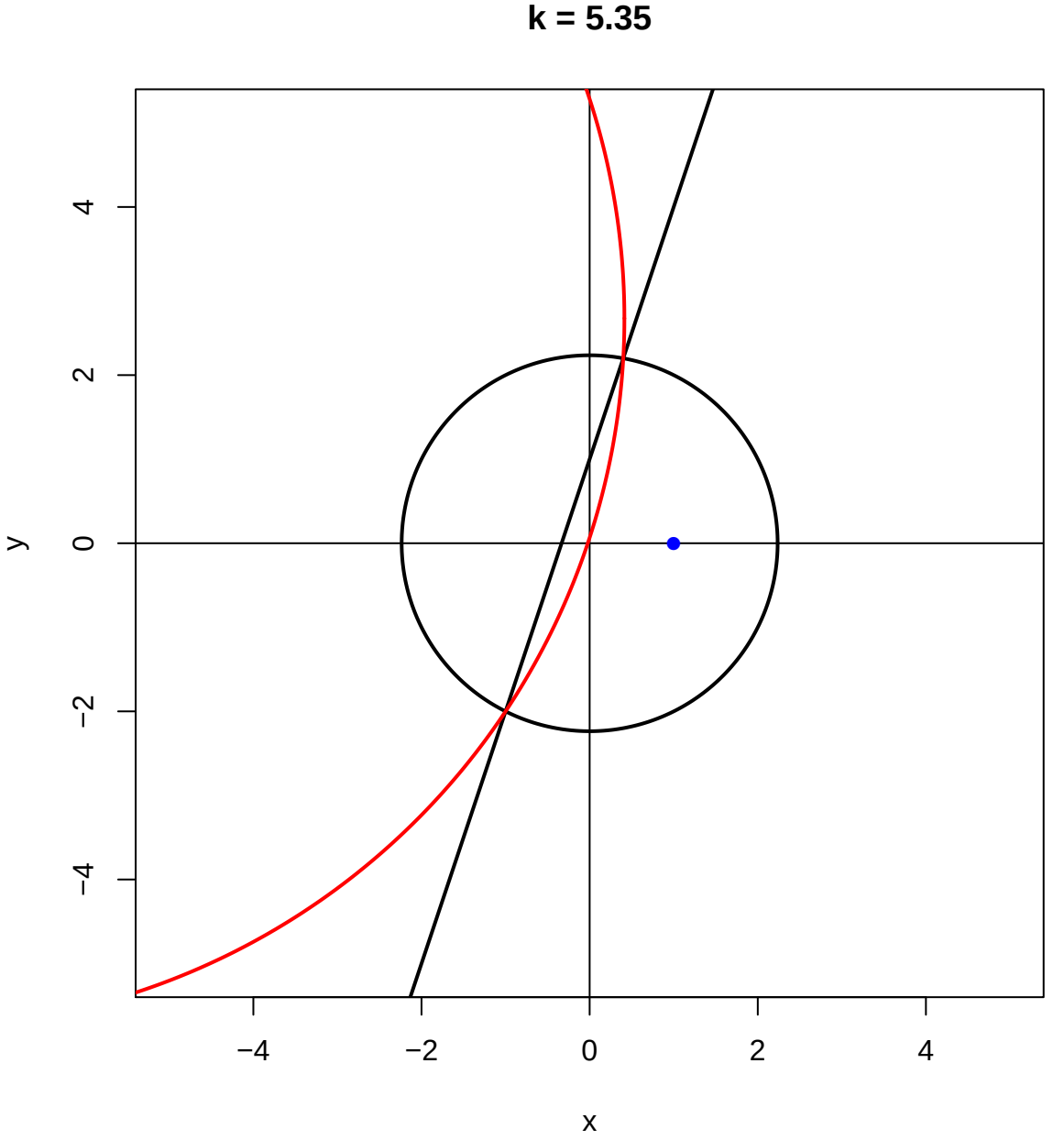
k = 5.35
y
x
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2
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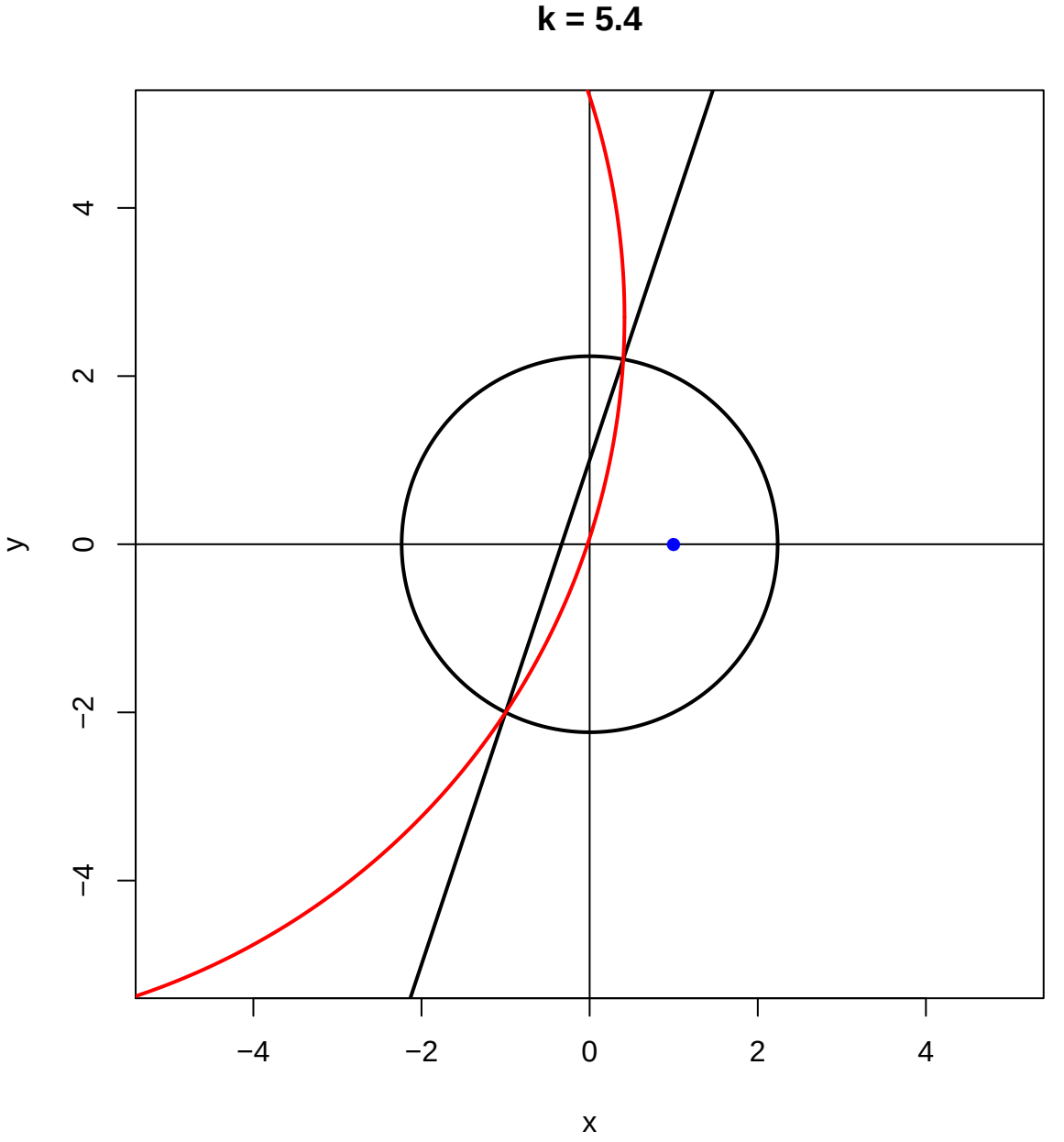
k = 5.4
y
x
4
2
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−2
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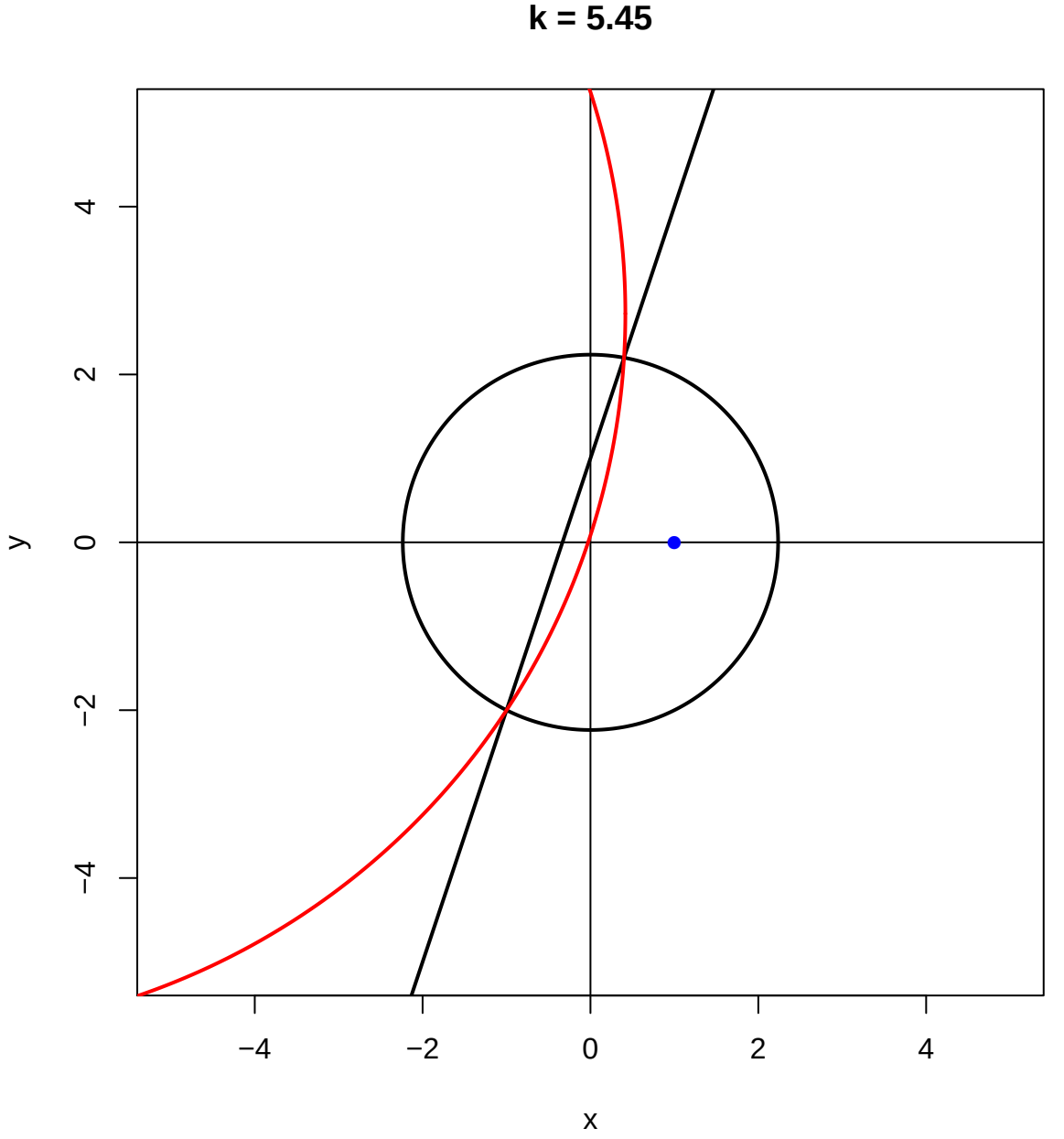
2
4


k = 5.45
y
x
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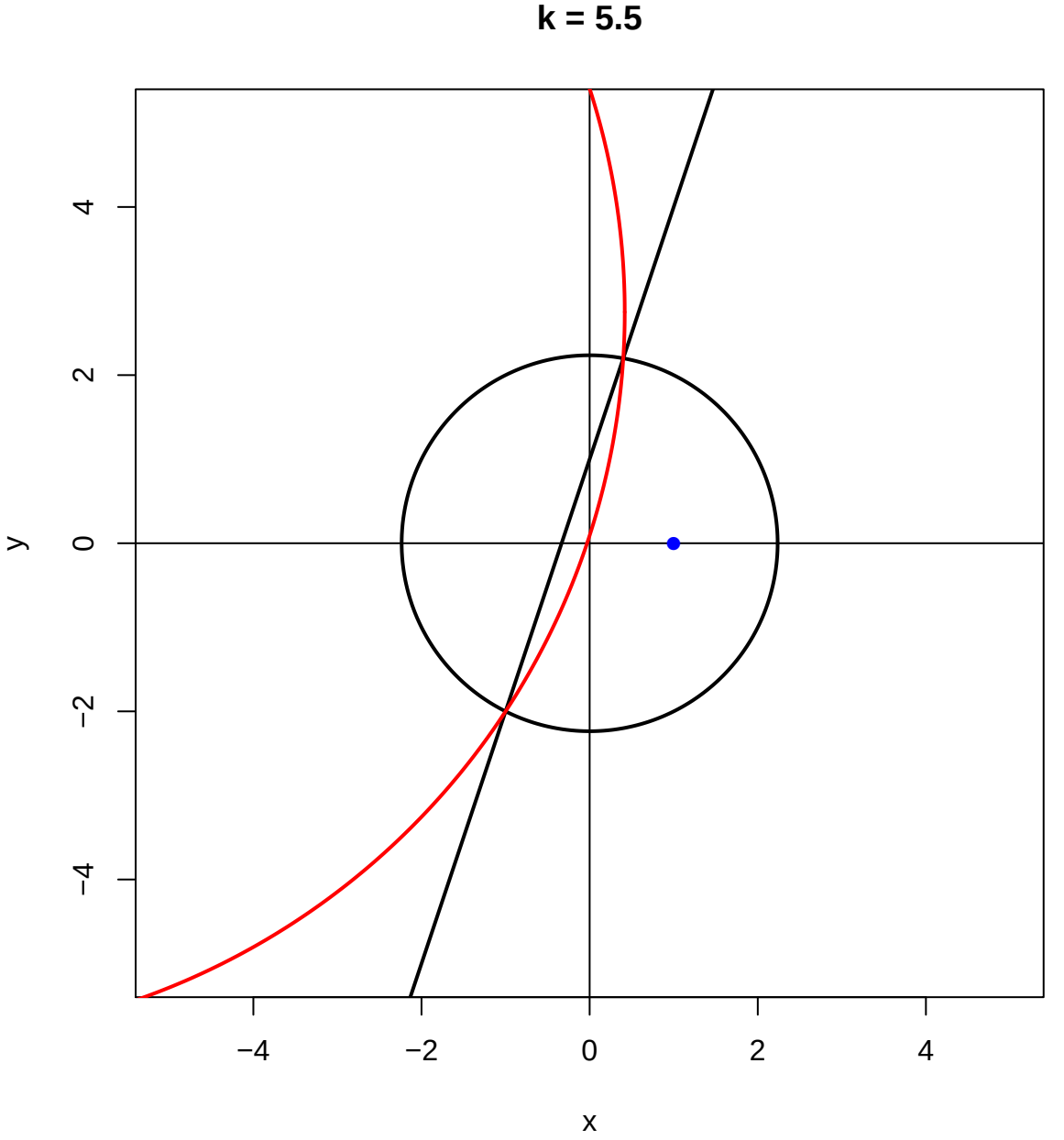
k = 5.5
y
x
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−2
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−4
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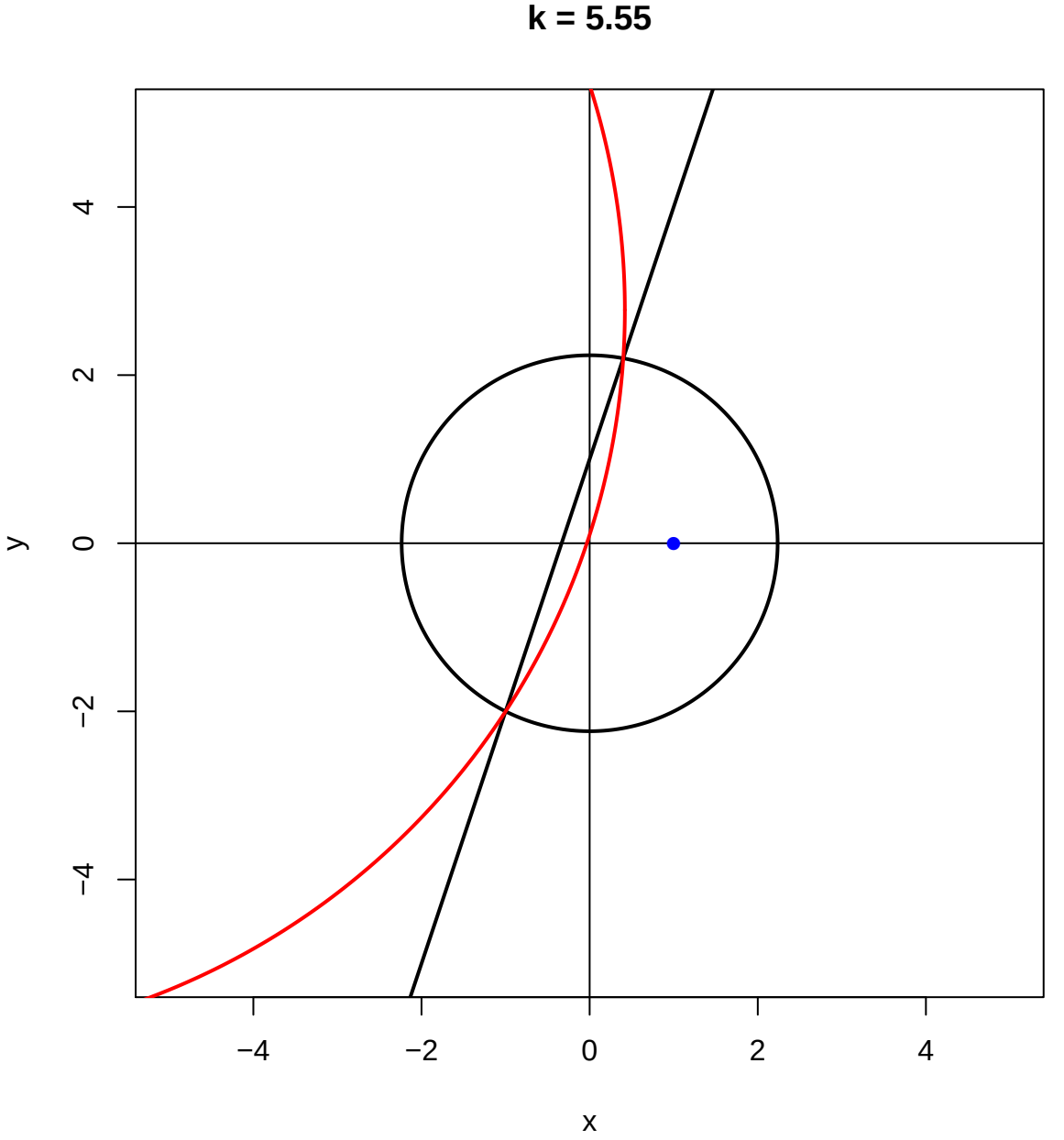
k = 5.55
y
x
4
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−2
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−2
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2
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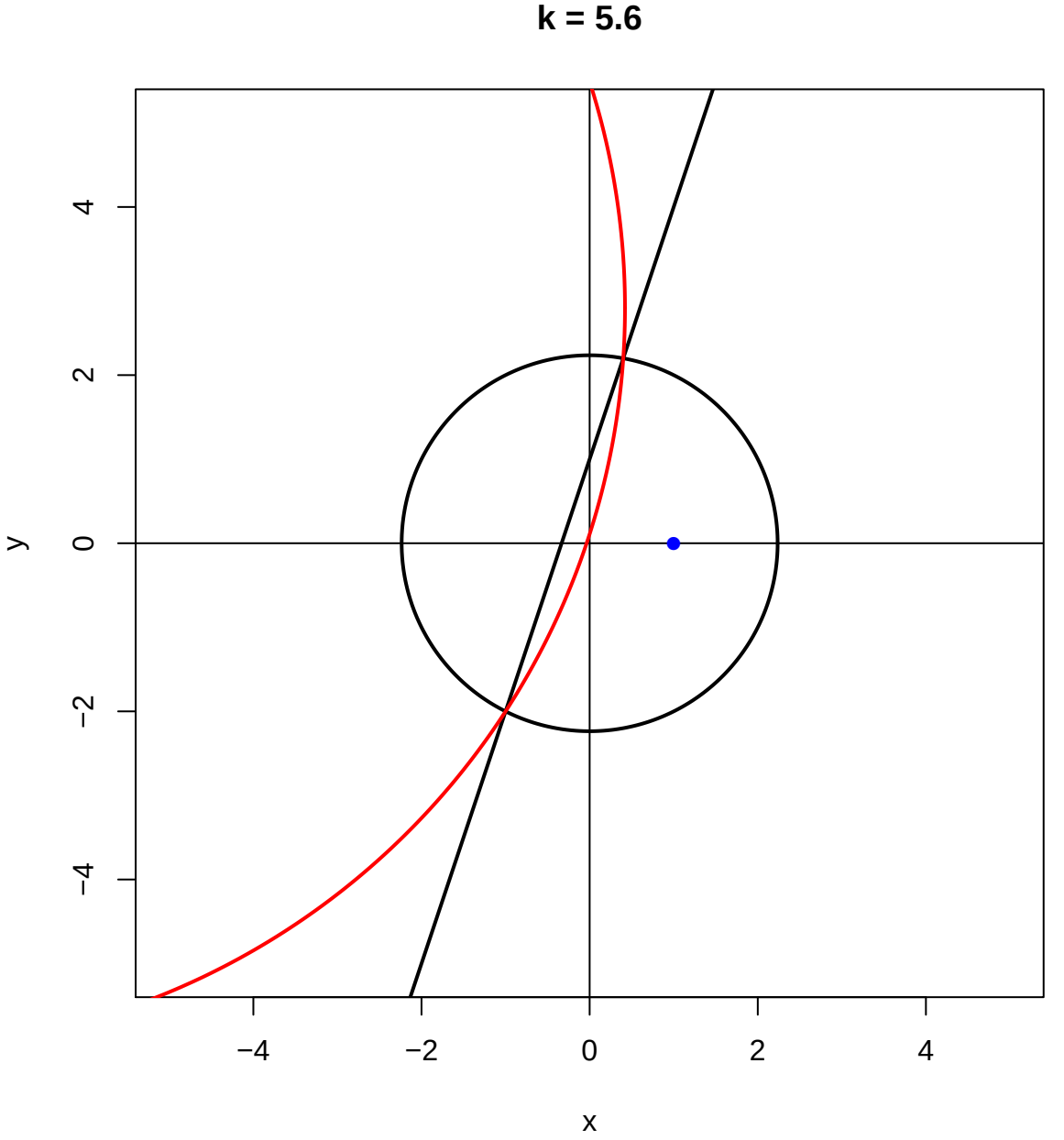
k = 5.6
y
x
4
2
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−2
−4
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−2
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2
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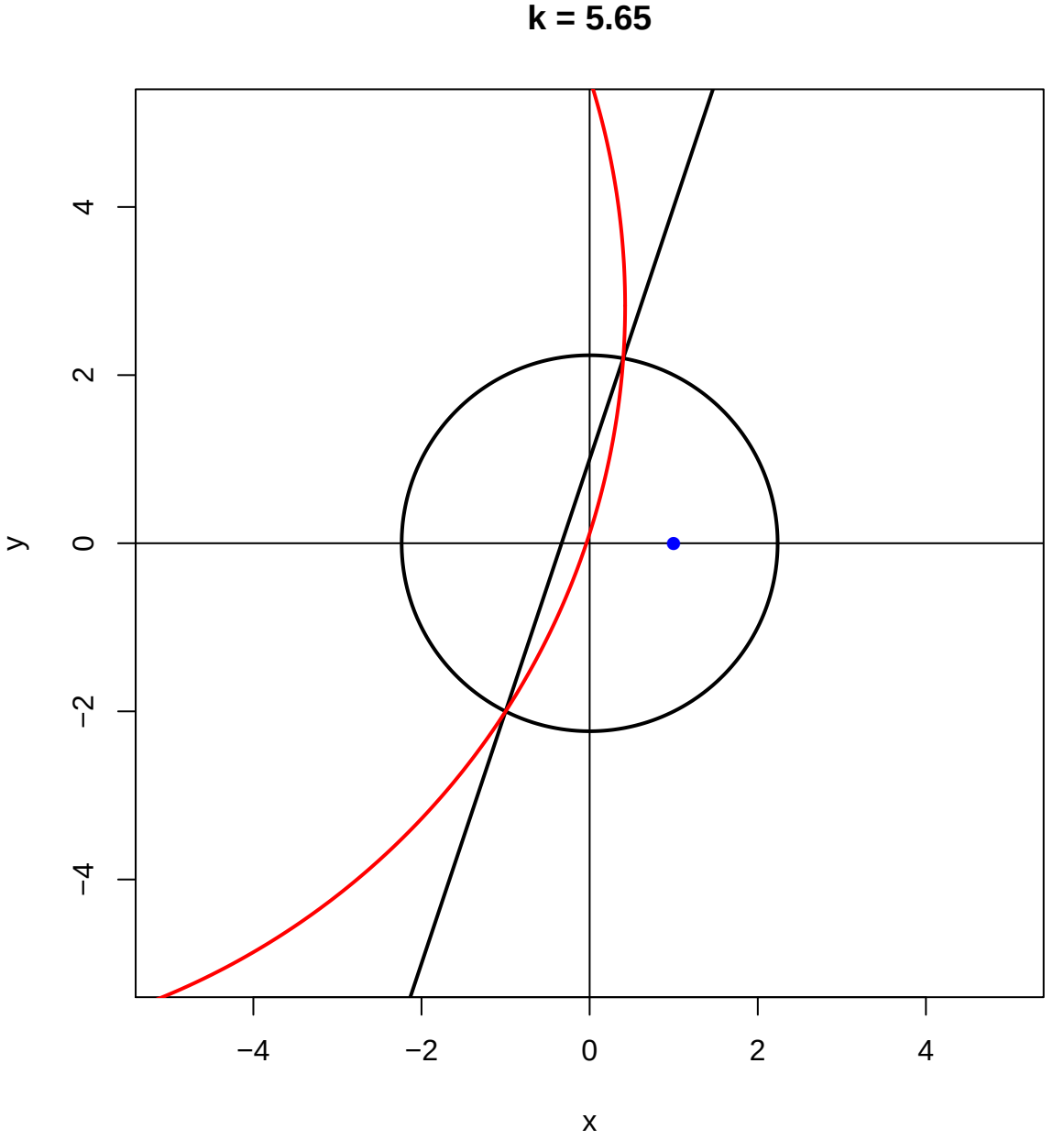
k = 5.65
y
x
4
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2
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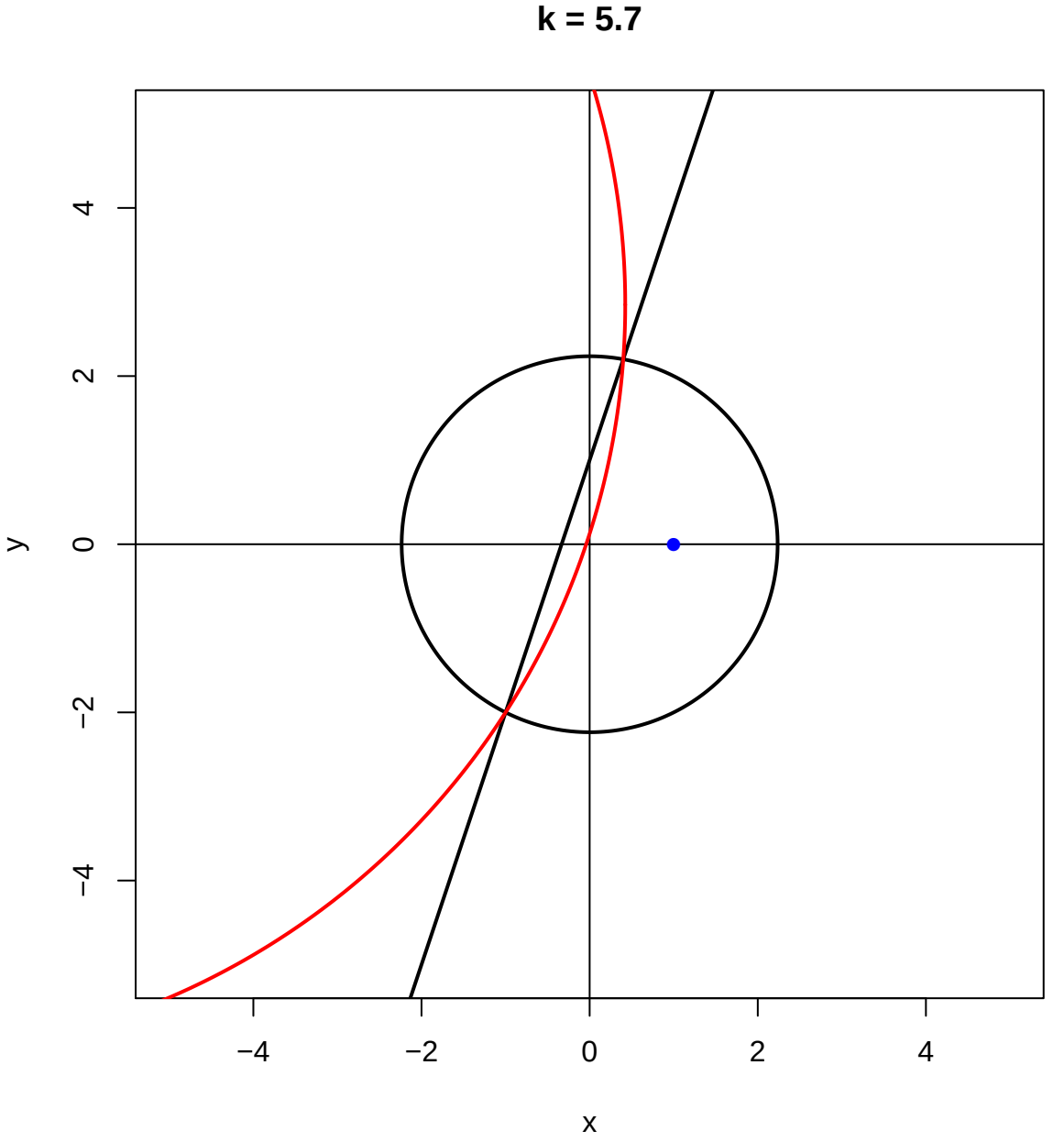
k = 5.7
y
x
4
2
0
−2
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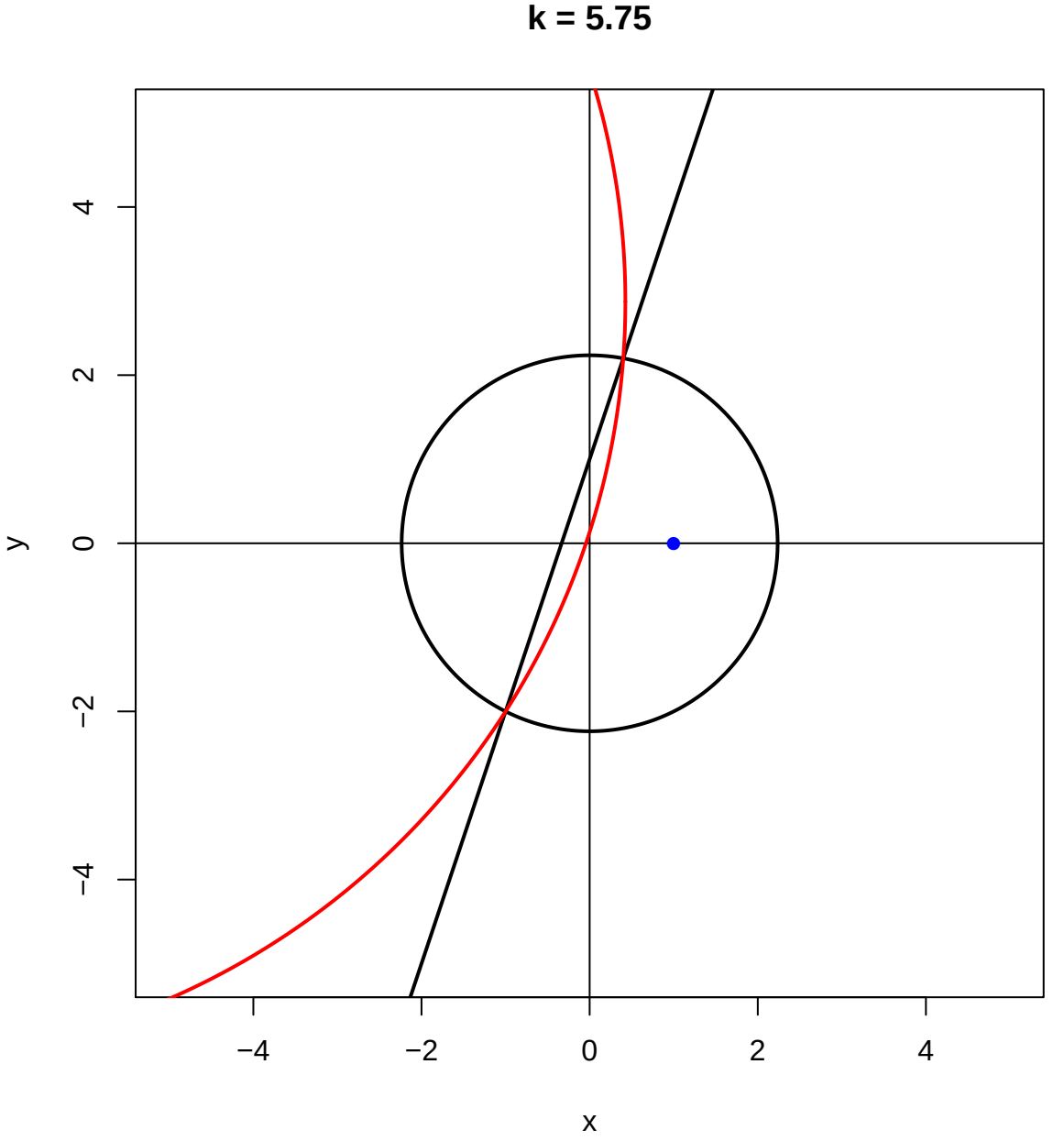
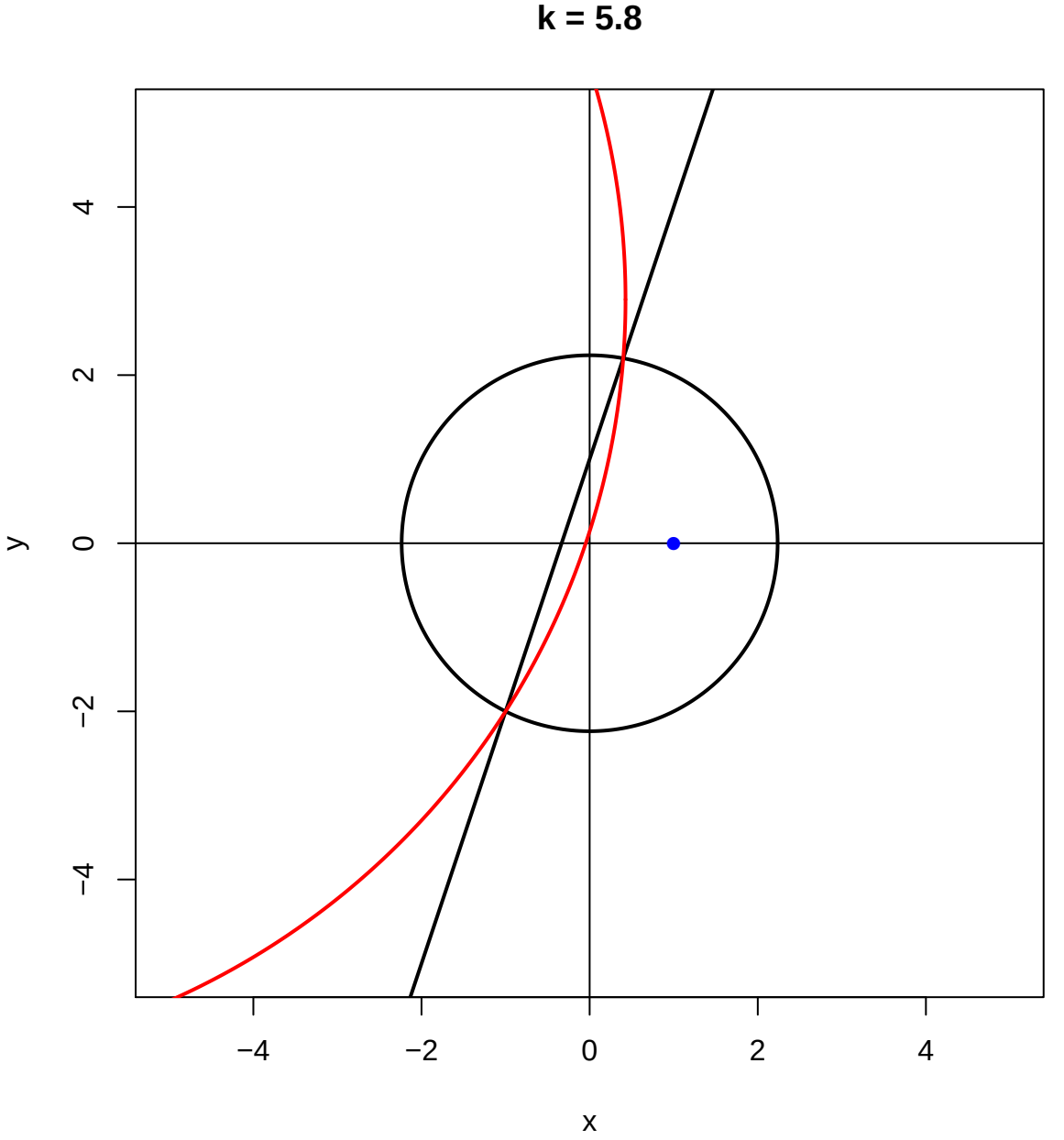
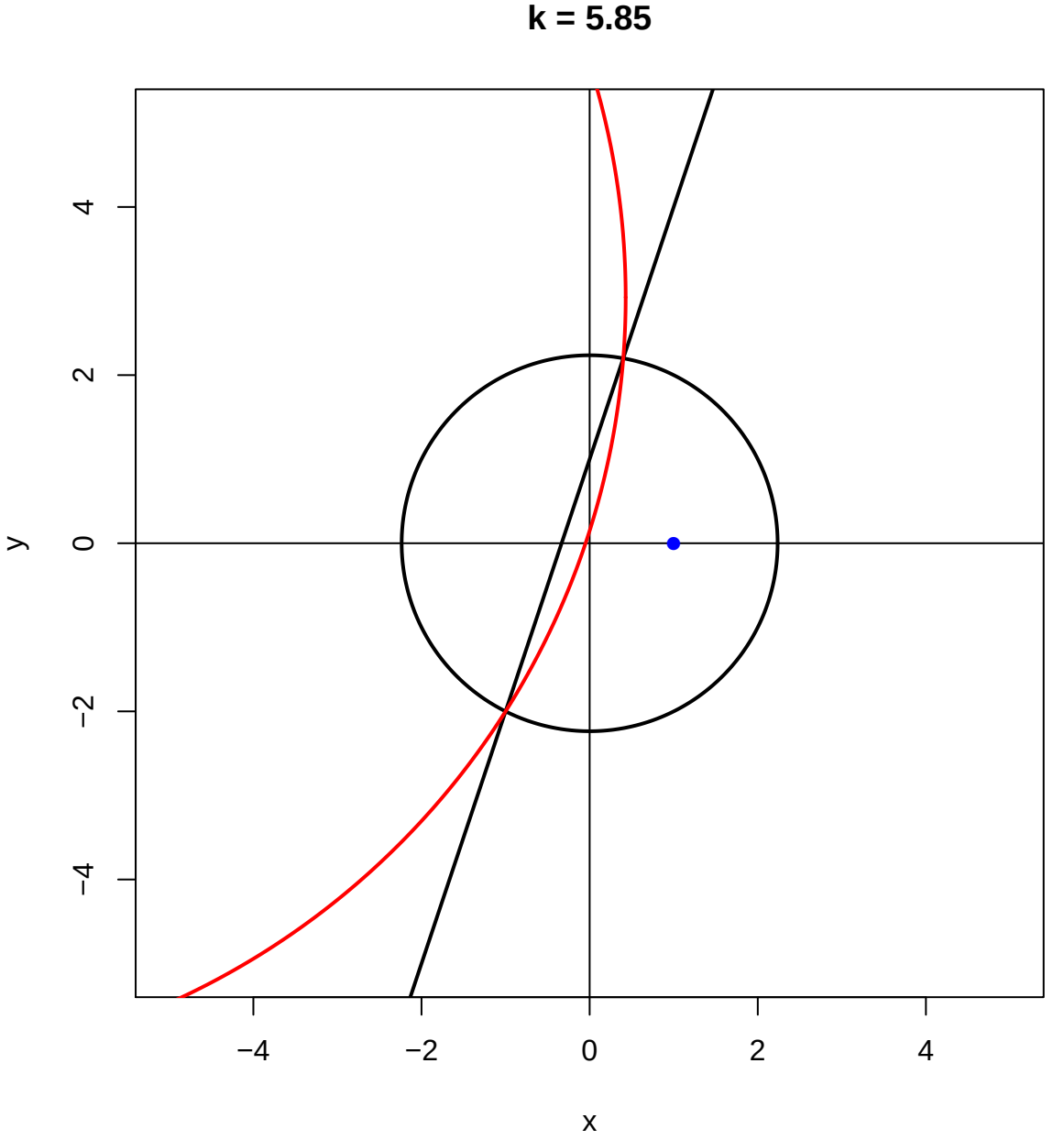
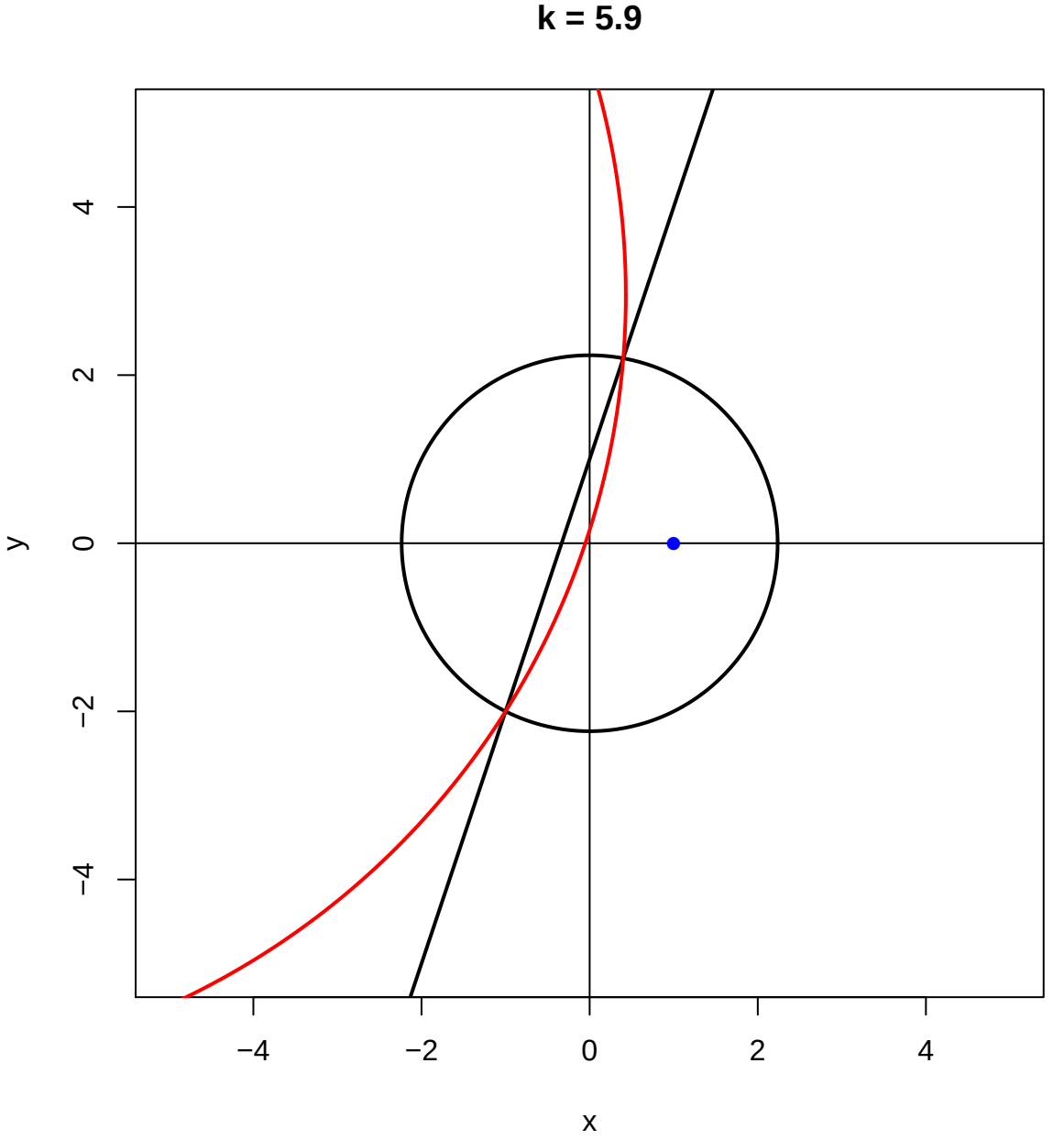
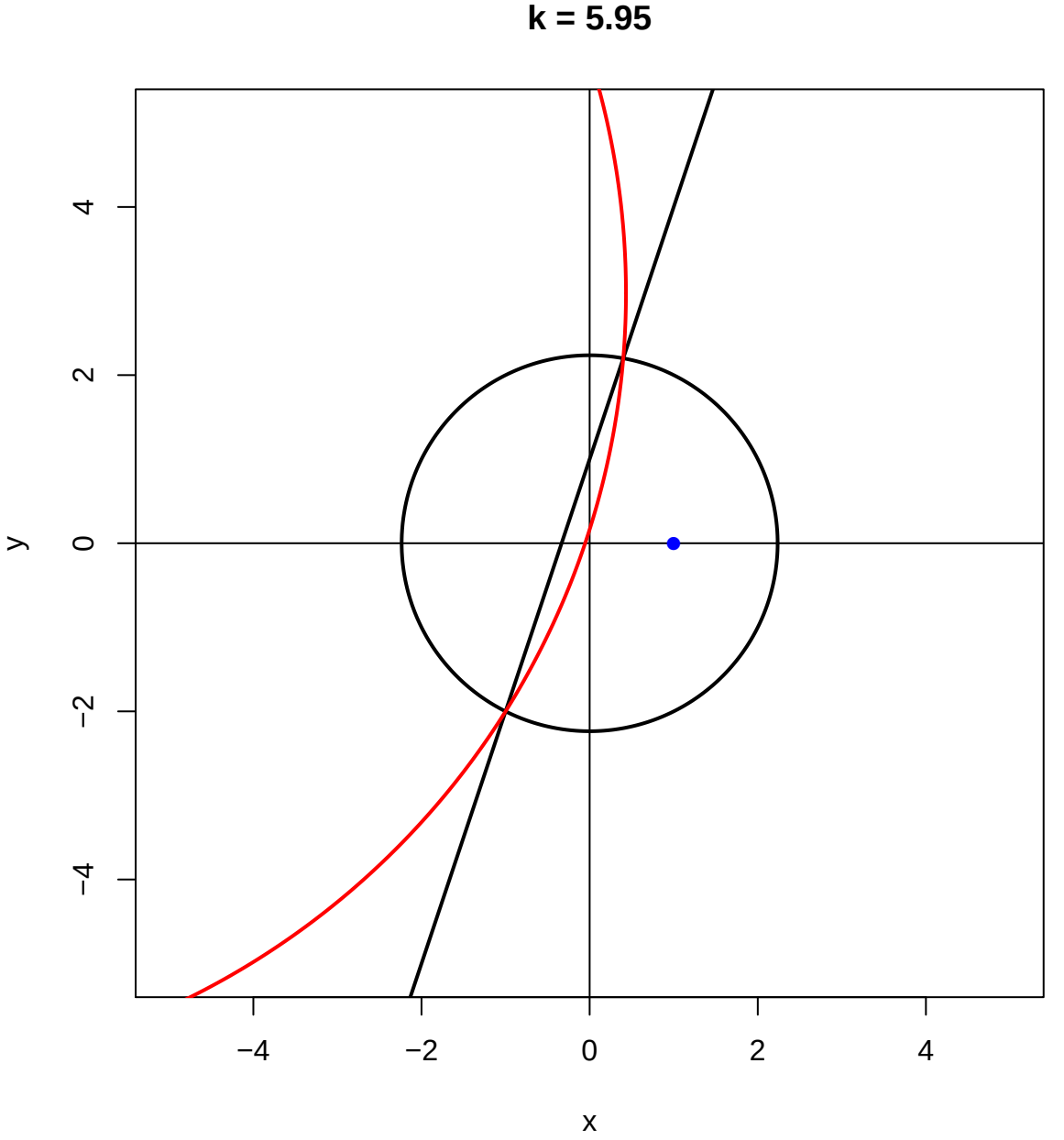
−4
−2
0
2
4

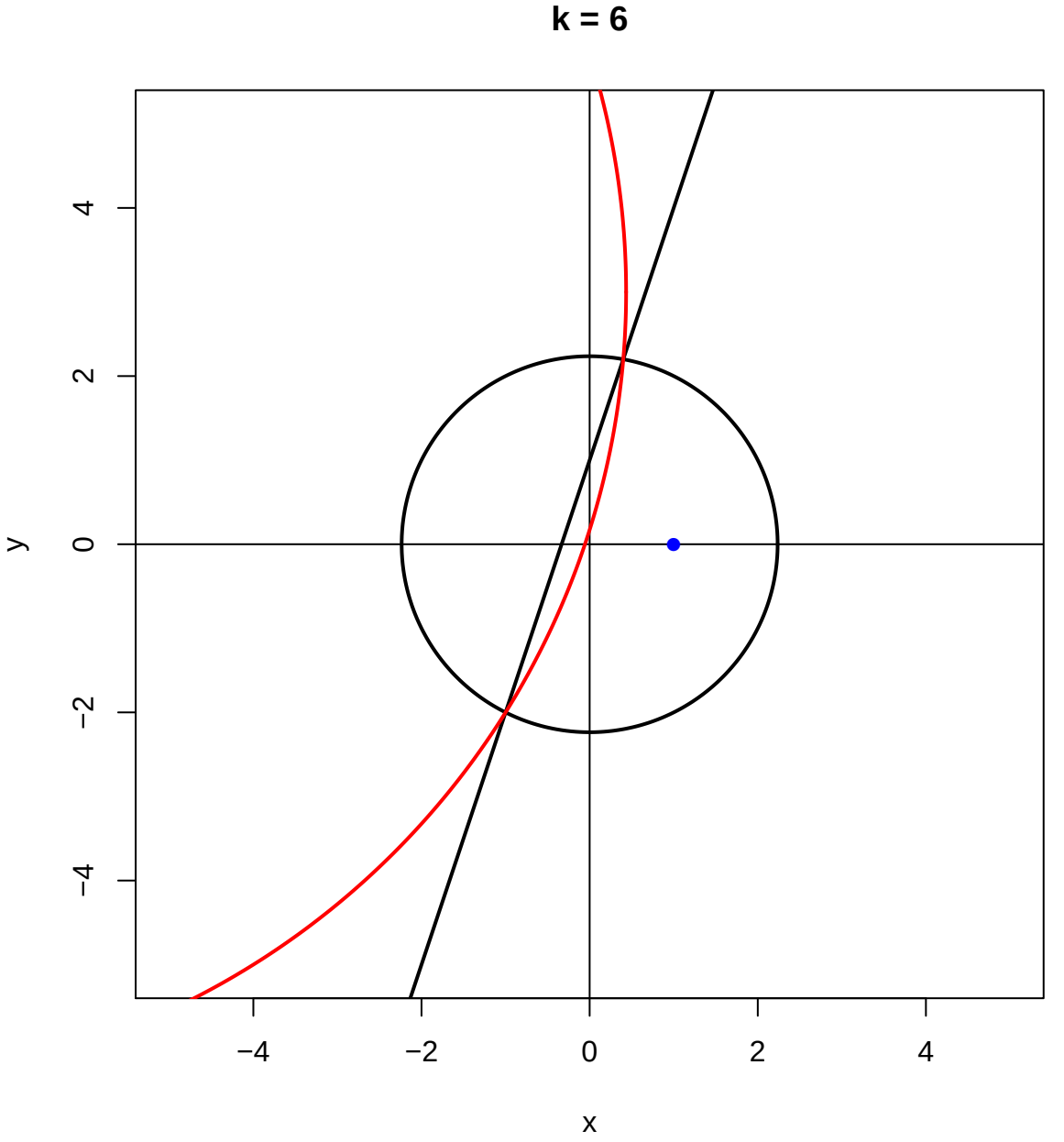

k = 5.75
y
x
4
2
0
−2
−4
−4
−2
0
2
4


k = 5.8
y
x
4
2
0
−2
−4
−4
−2
0
2
4


k = 5.85
y
x
4
2
0
−2
−4
−4
−2
0
2
4


k = 5.9
y
x
4
2
0
−2
−4
−4
−2
0
2
4


k = 5.95
y
x
4
2
0
−2
−4
−4
−2
0
2
4


k = 6
y
x
4
2
0
−2
−4
−4
−2
0
2
4