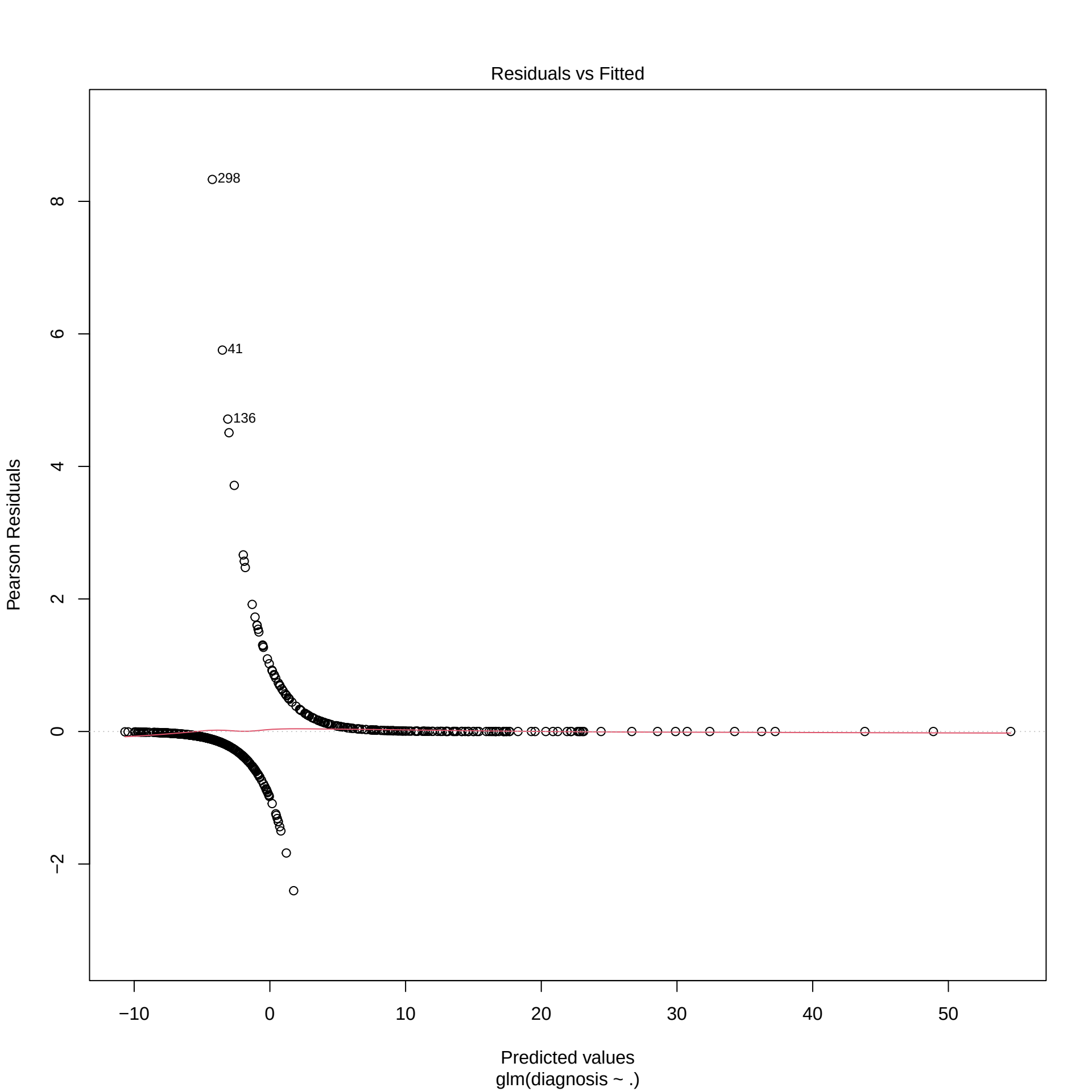
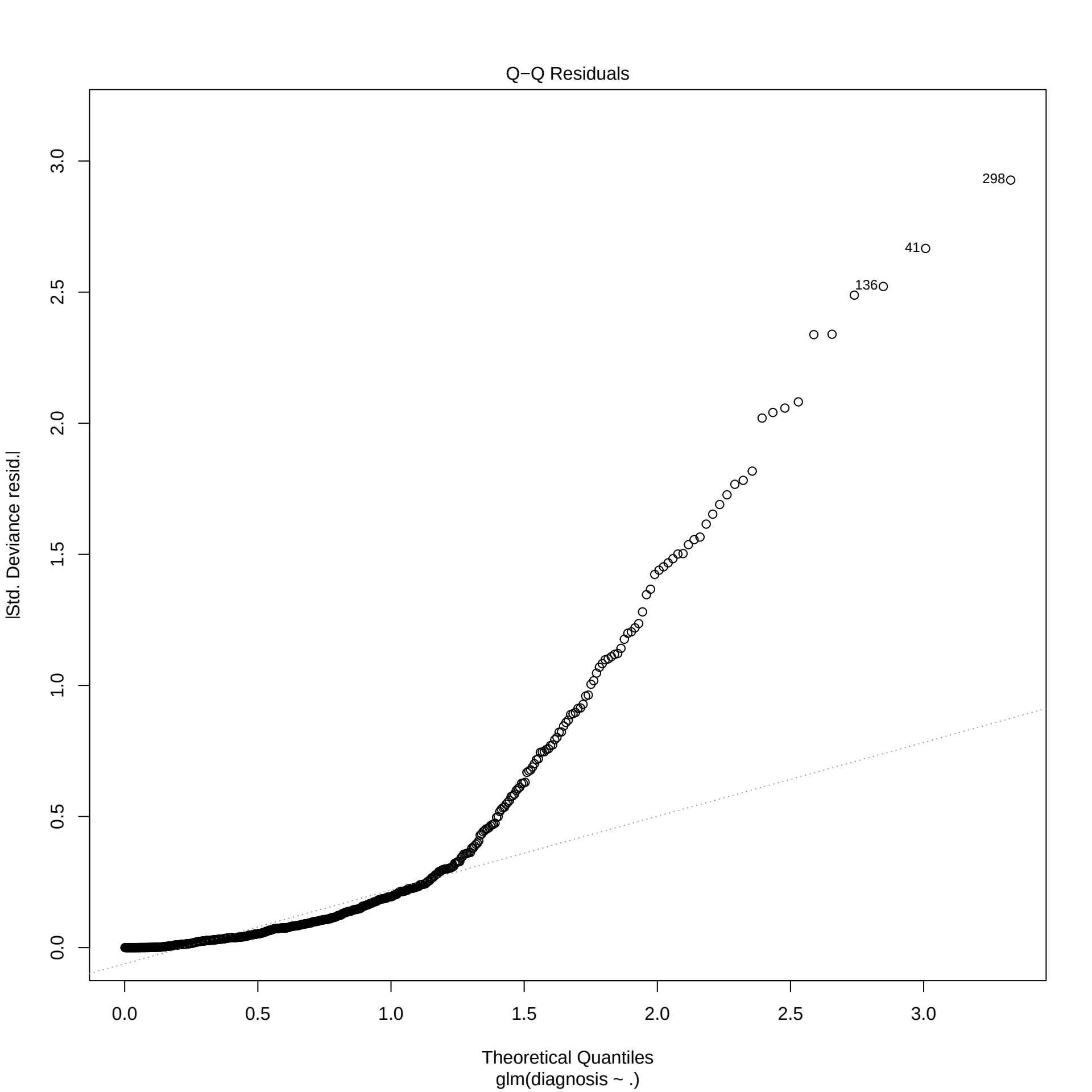
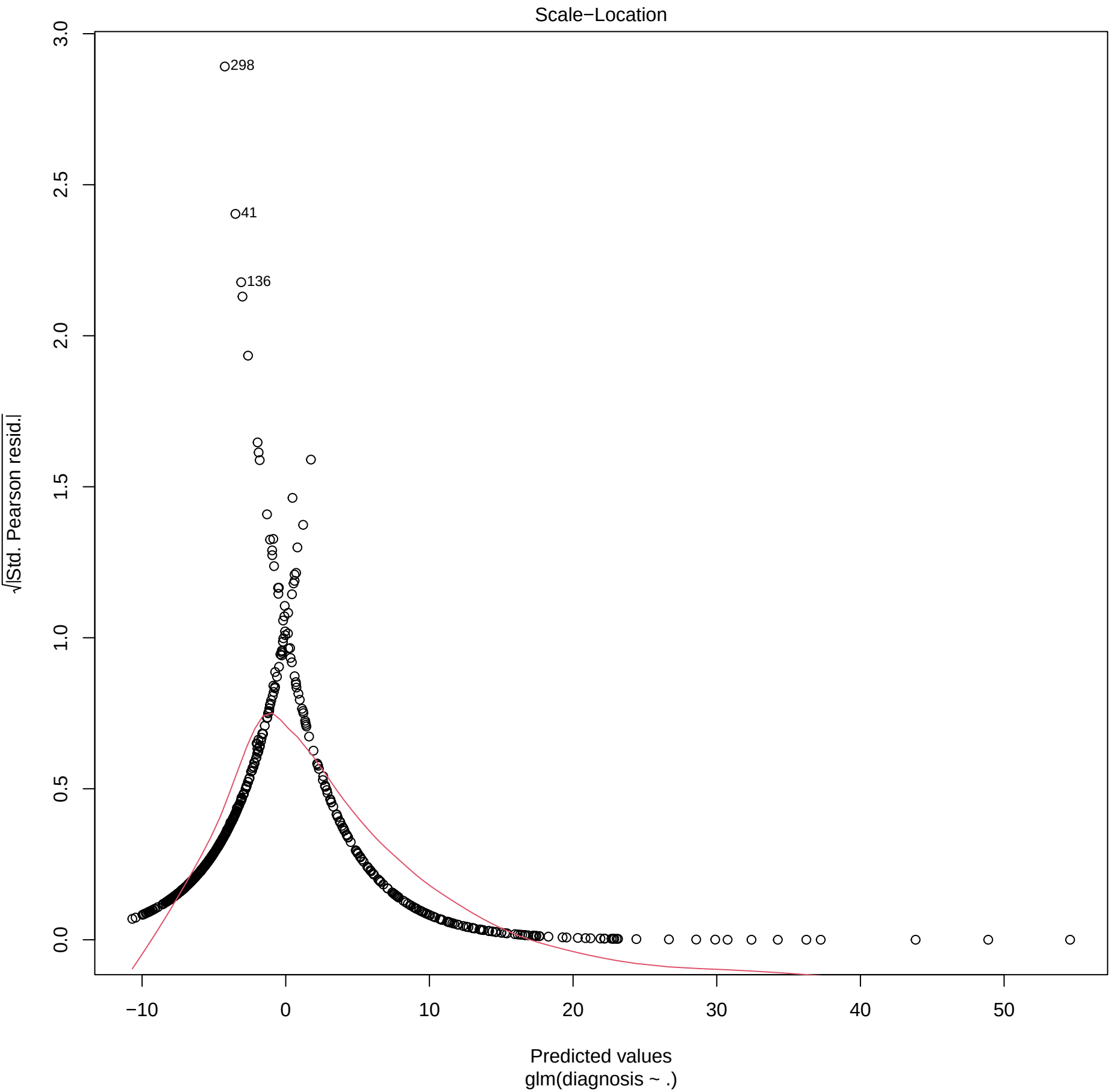
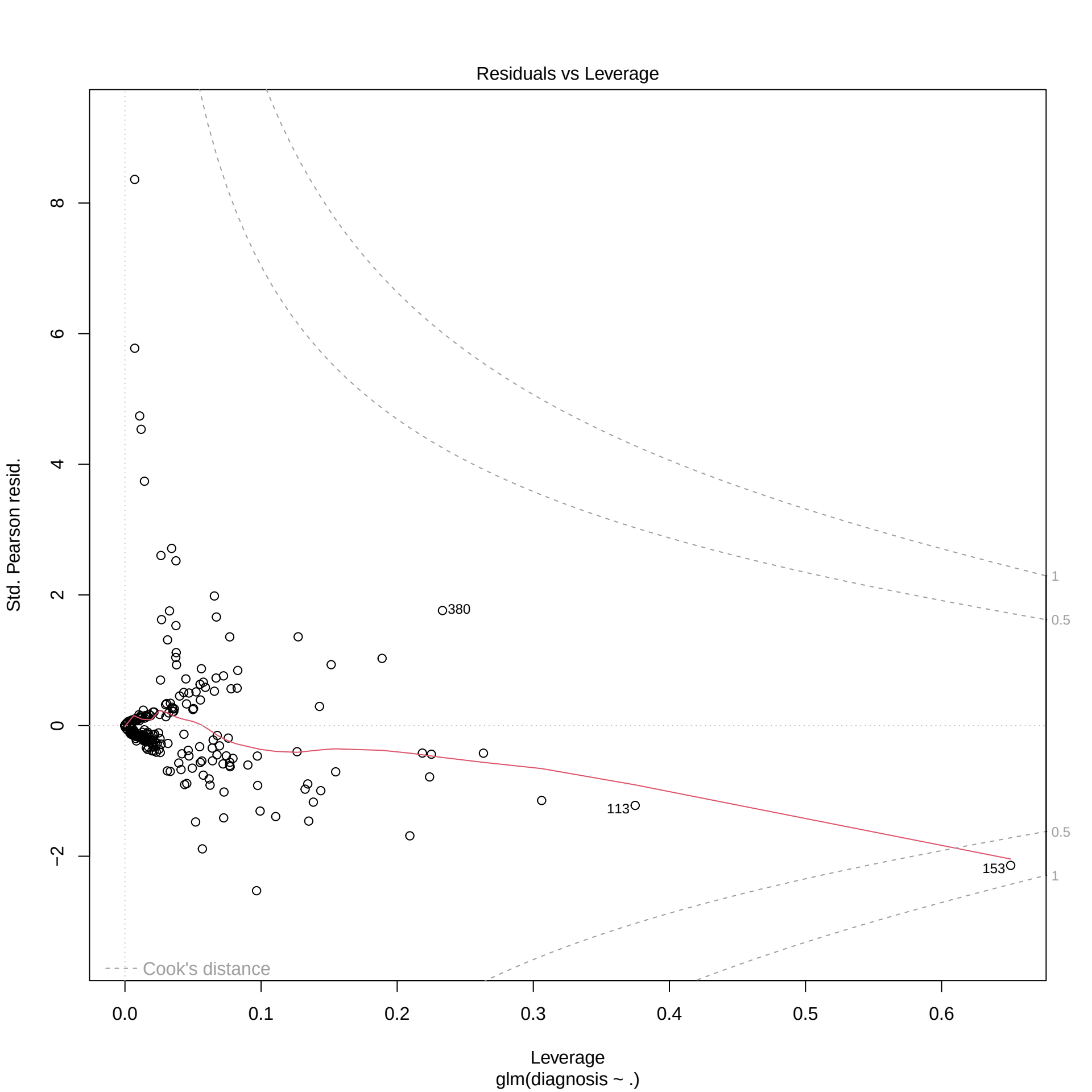
Modelo completo

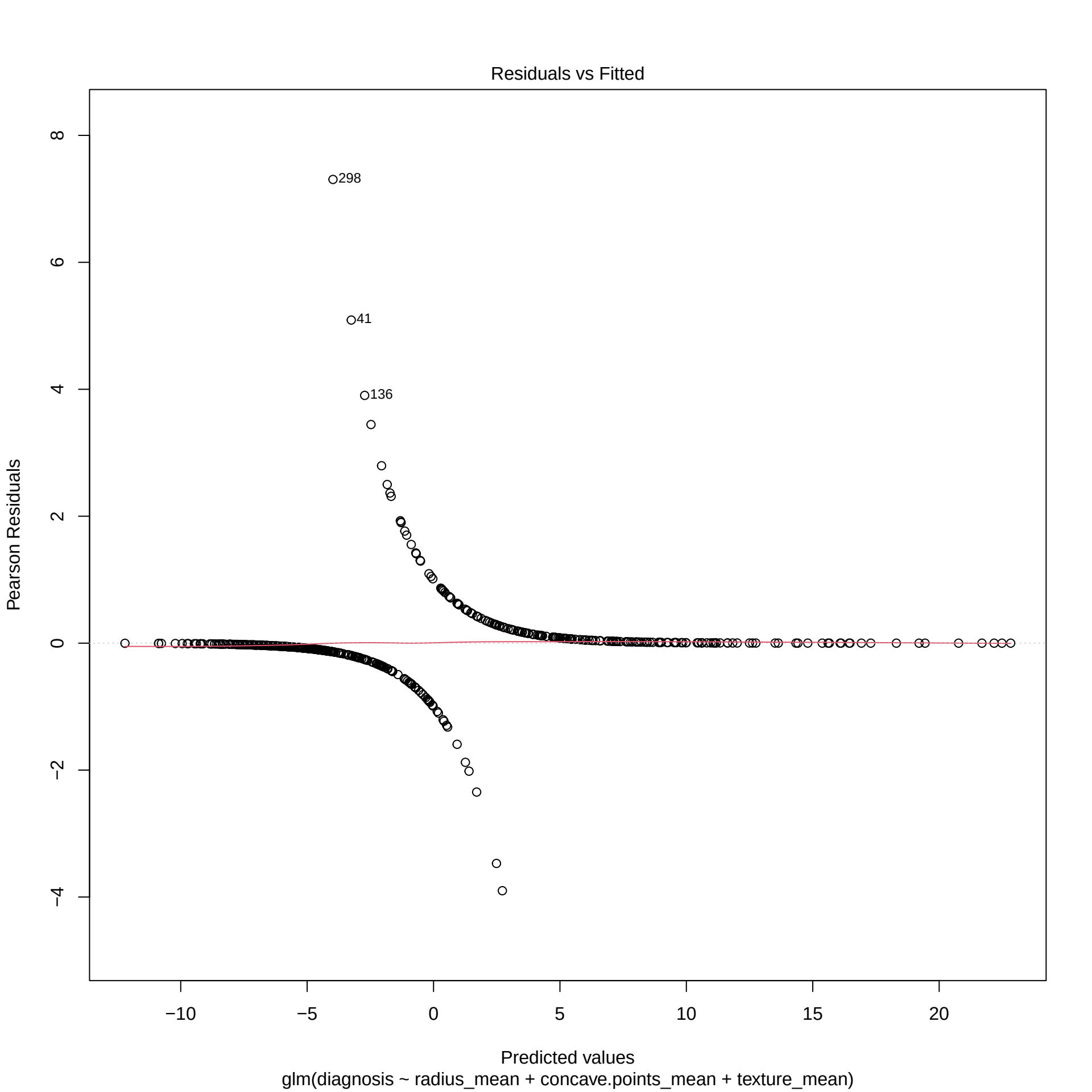

Residuals vs Fitted
298
41
136
Pearson Residuals
8
6
4
2
0
−2
−10
0
10
20
30
40
50
Predicted values
glm(diagnosis ~ .)

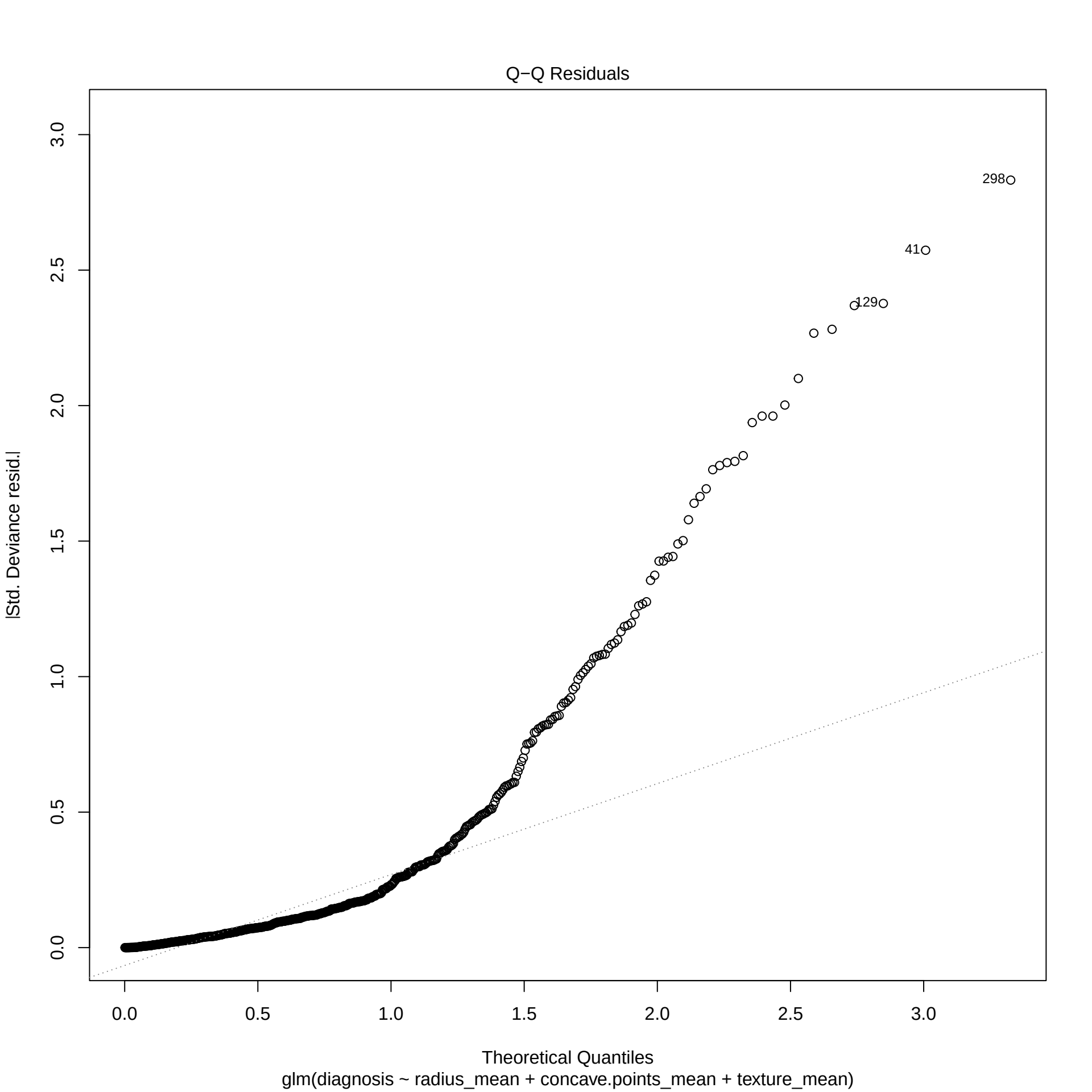

Q−Q Residuals
|Std. Deviance resid.|
0.0
0.5
1.0
1.5
2.0
2.5
3.0
298
41
136
Theoretical Quantiles
glm(diagnosis ~ .)

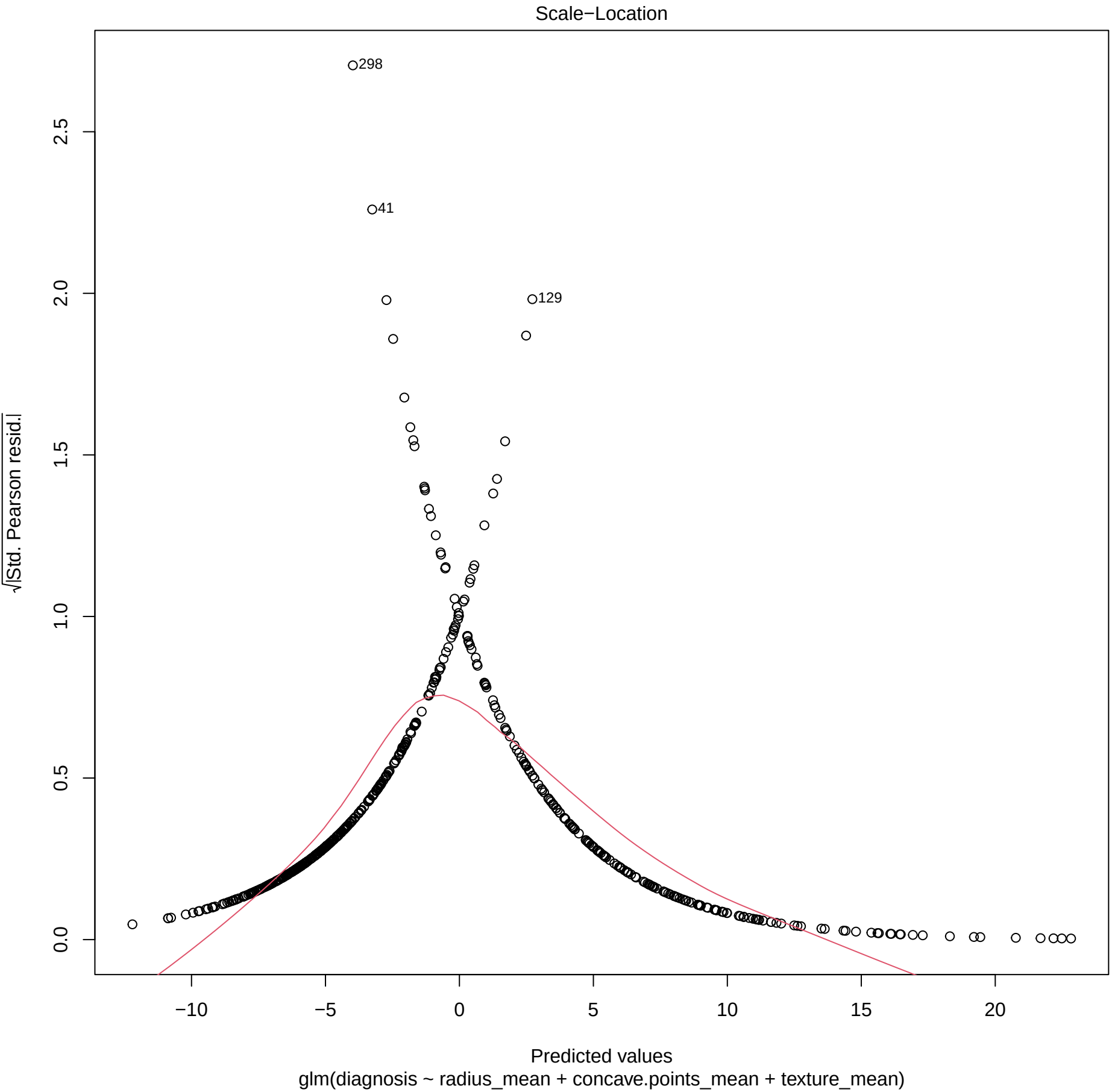

Scale−Location
√|Std. Pearson resid.|
3.0
2.5
2.0
1.5
1.0
0.5
0.0
298
41
136
−10
0
10
20
30
40
50
Predicted values
glm(diagnosis ~ .)

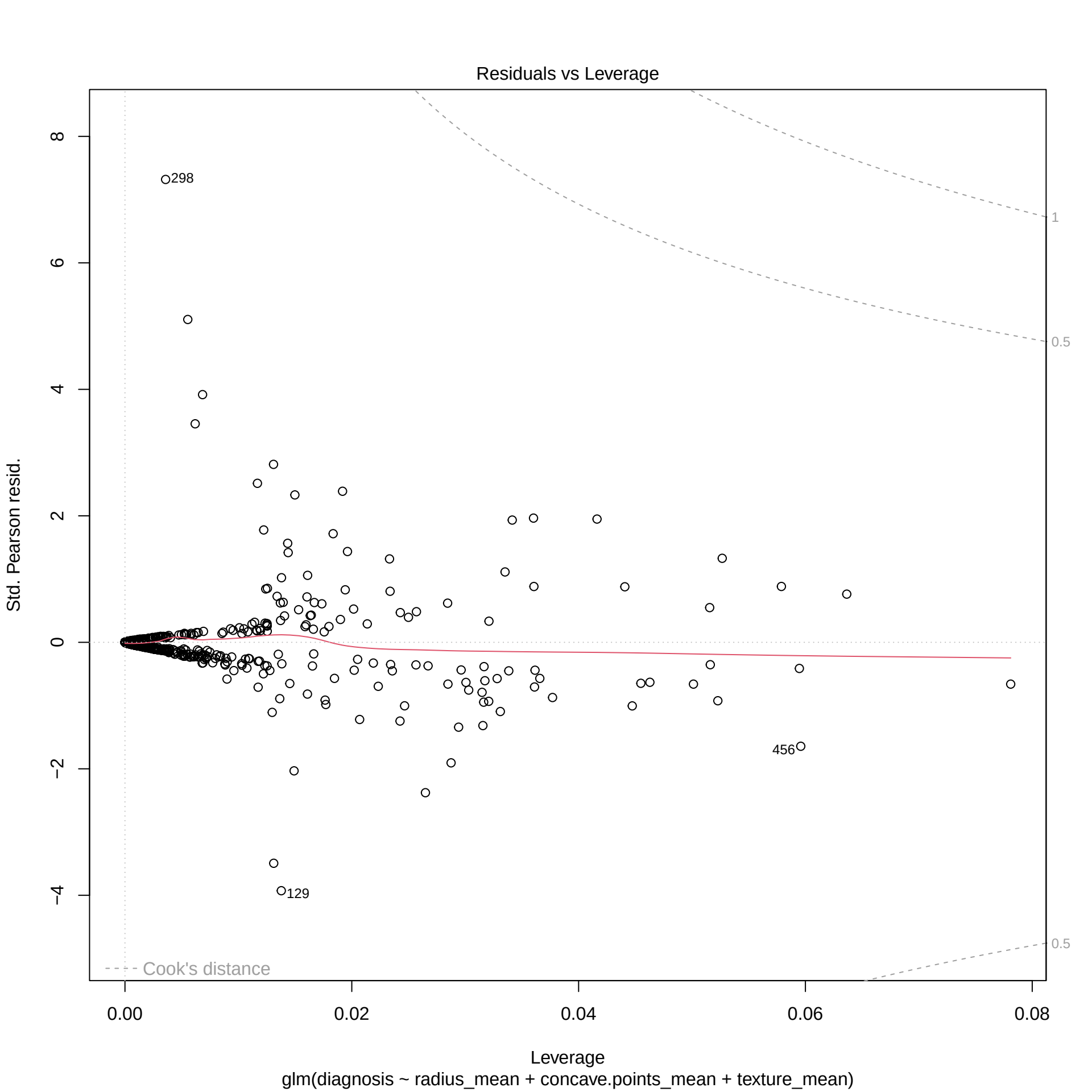

Residuals vs Leverage
Std. Pearson resid.
8
6
4
2
0
−2
380
113
153
1
0.5
0.5
1
Cook's distance
0.0
0.1
0.2
0.3
0.4
0.5
0.6
Leverage
glm(diagnosis ~ .)

Modelo A

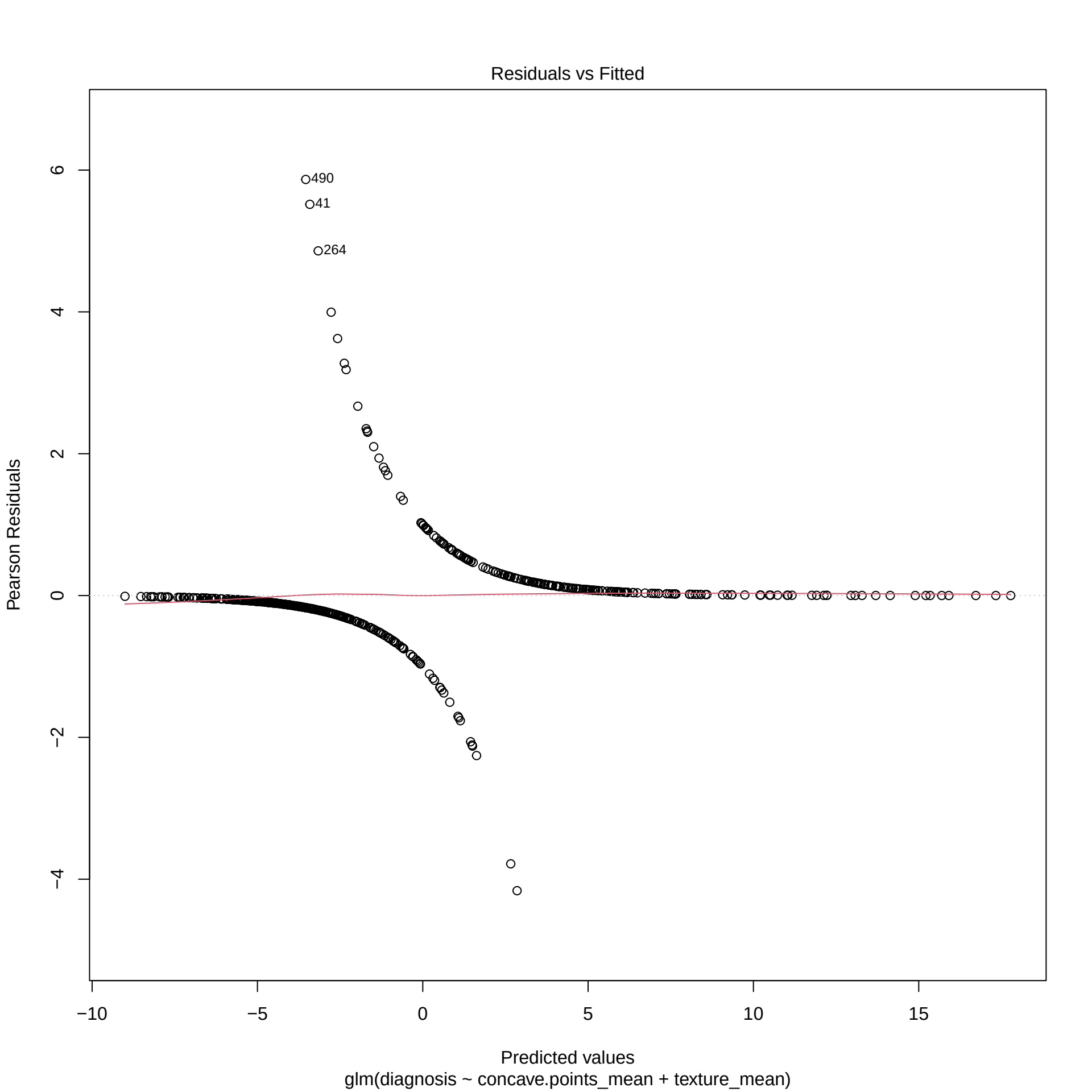

Residuals vs Fitted
Pearson Residuals
Predicted values
glm(diagnosis ~ radius_mean + concave.points_mean + texture_mean)
298
41
136
8
6
4
2
0
−2
−4
−10
−5
0
5
10
15
20

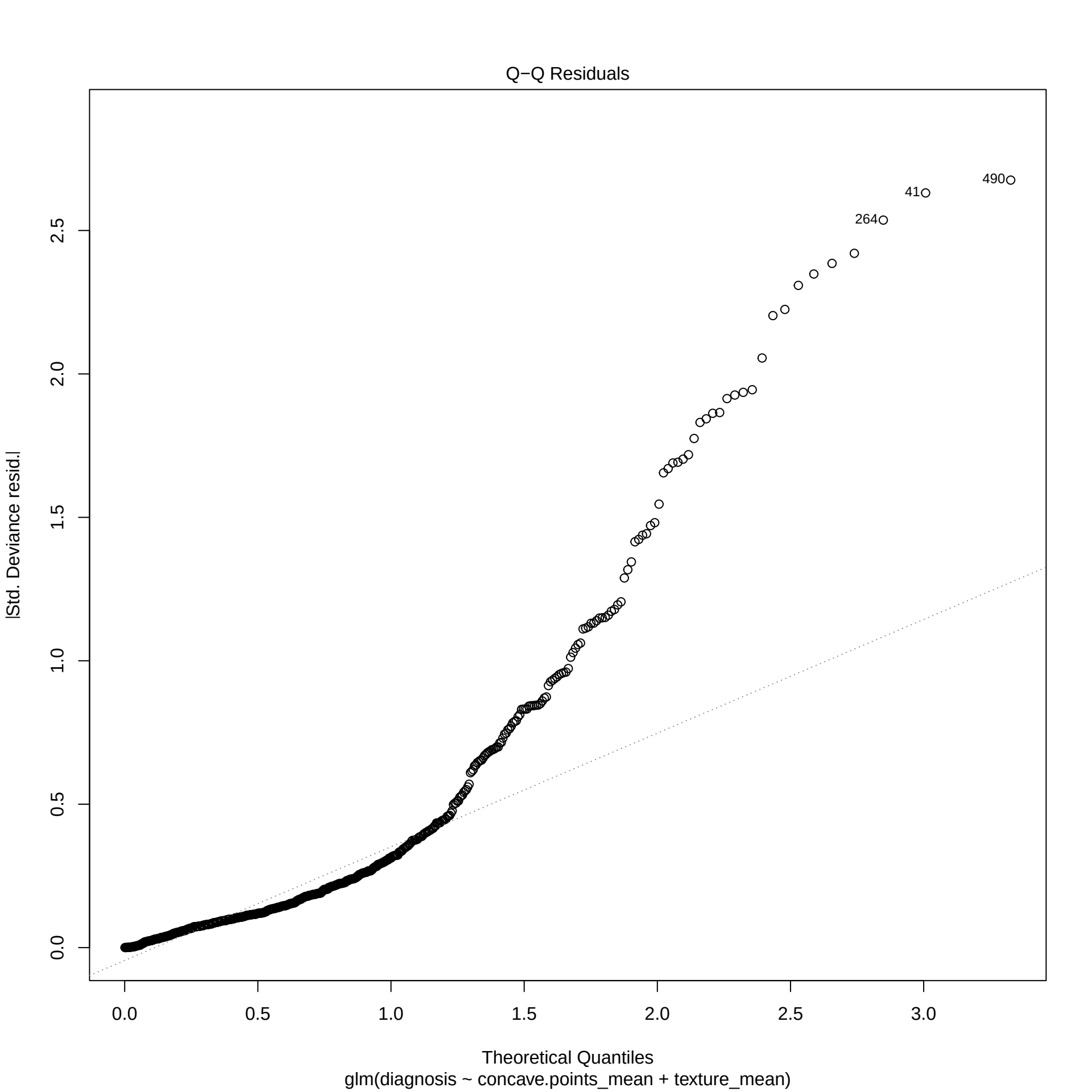

Q−Q Residuals
|Std. Deviance resid.|
0.0
0.5
1.0
1.5
2.0
2.5
3.0
298
41
129
Theoretical Quantiles
glm(diagnosis ~ radius_mean + concave.points_mean + texture_mean)

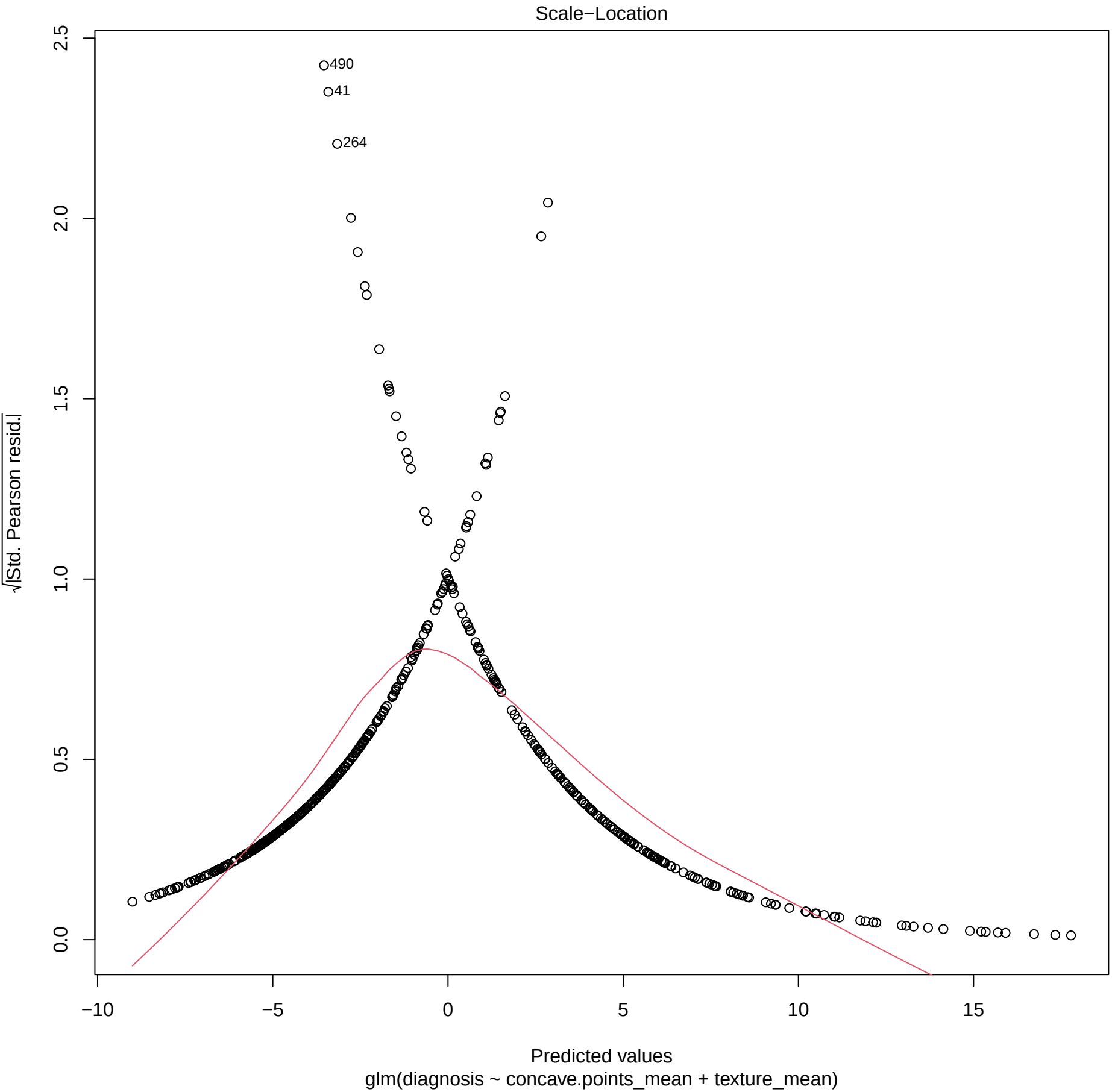

Scale−Location
298
41
129
√|Std. Pearson resid.|
0.0
0.5
1.0
1.5
2.0
2.5
−10
−5
0
5
10
15
20
Predicted values
glm(diagnosis ~ radius_mean + concave.points_mean + texture_mean)

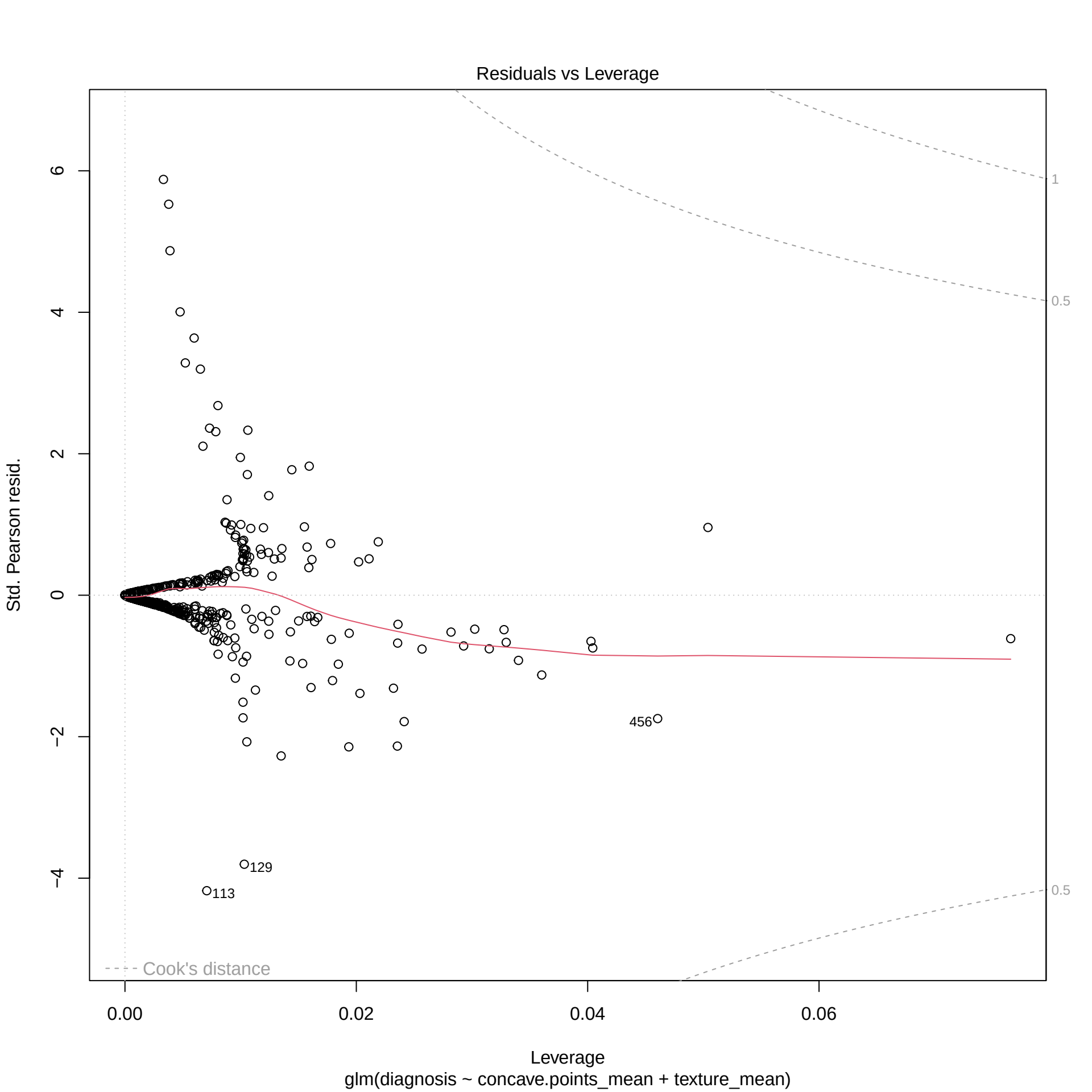

Residuals vs Leverage
Std. Pearson resid.
8
6
4
2
0
−2
−4
298
129
456
1
0.5
0.5
Cook's distance
0.00
0.02
0.04
0.06
0.08
Leverage
glm(diagnosis ~ radius_mean + concave.points_mean + texture_mean)

Modelo B

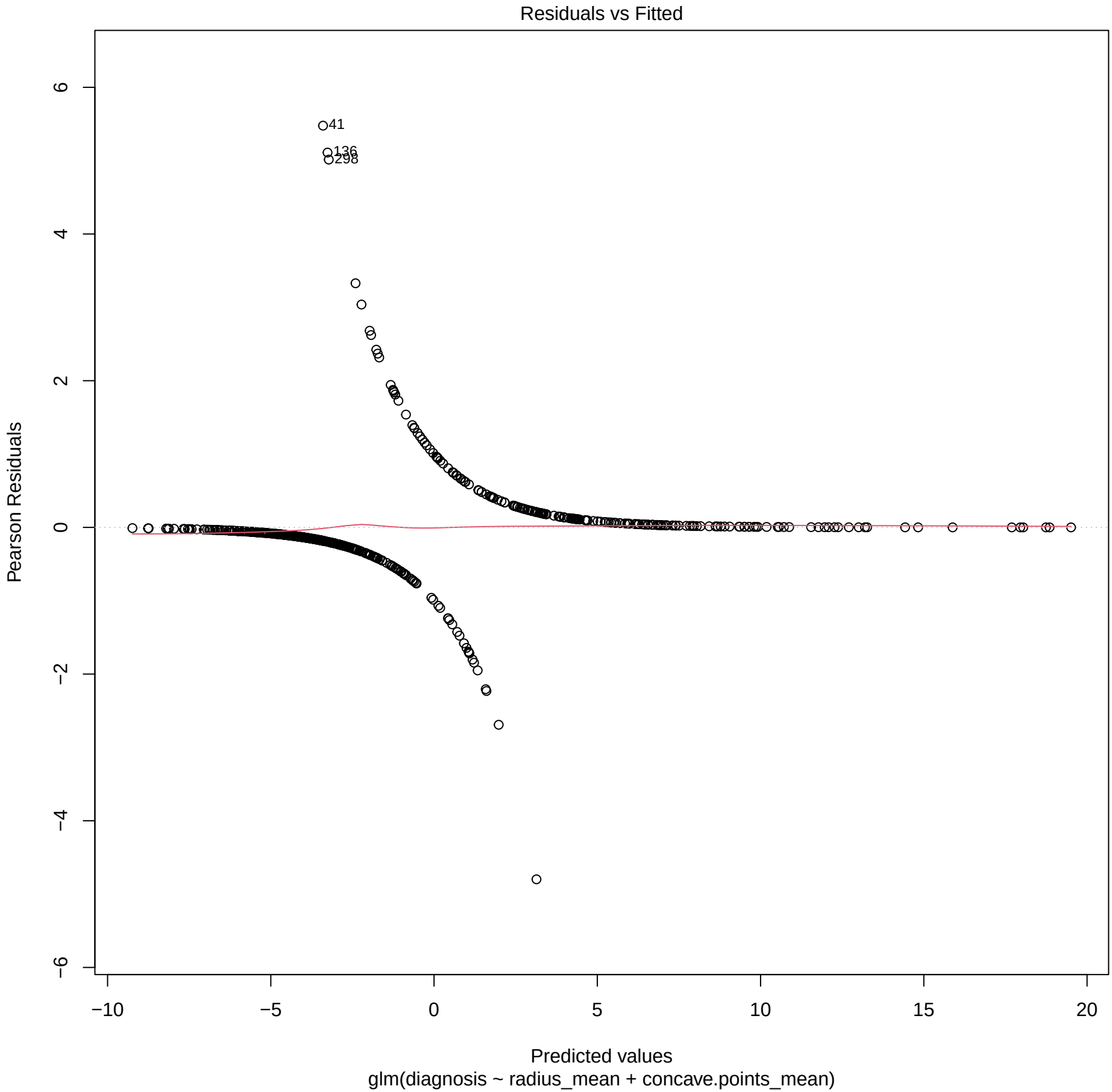

Residuals vs Fitted
Pearson Residuals
Predicted values
glm(diagnosis ~ concave.points_mean + texture_mean)
490
41
264
6
4
2
0
−2
−4
−10
−5
0
5
10
15

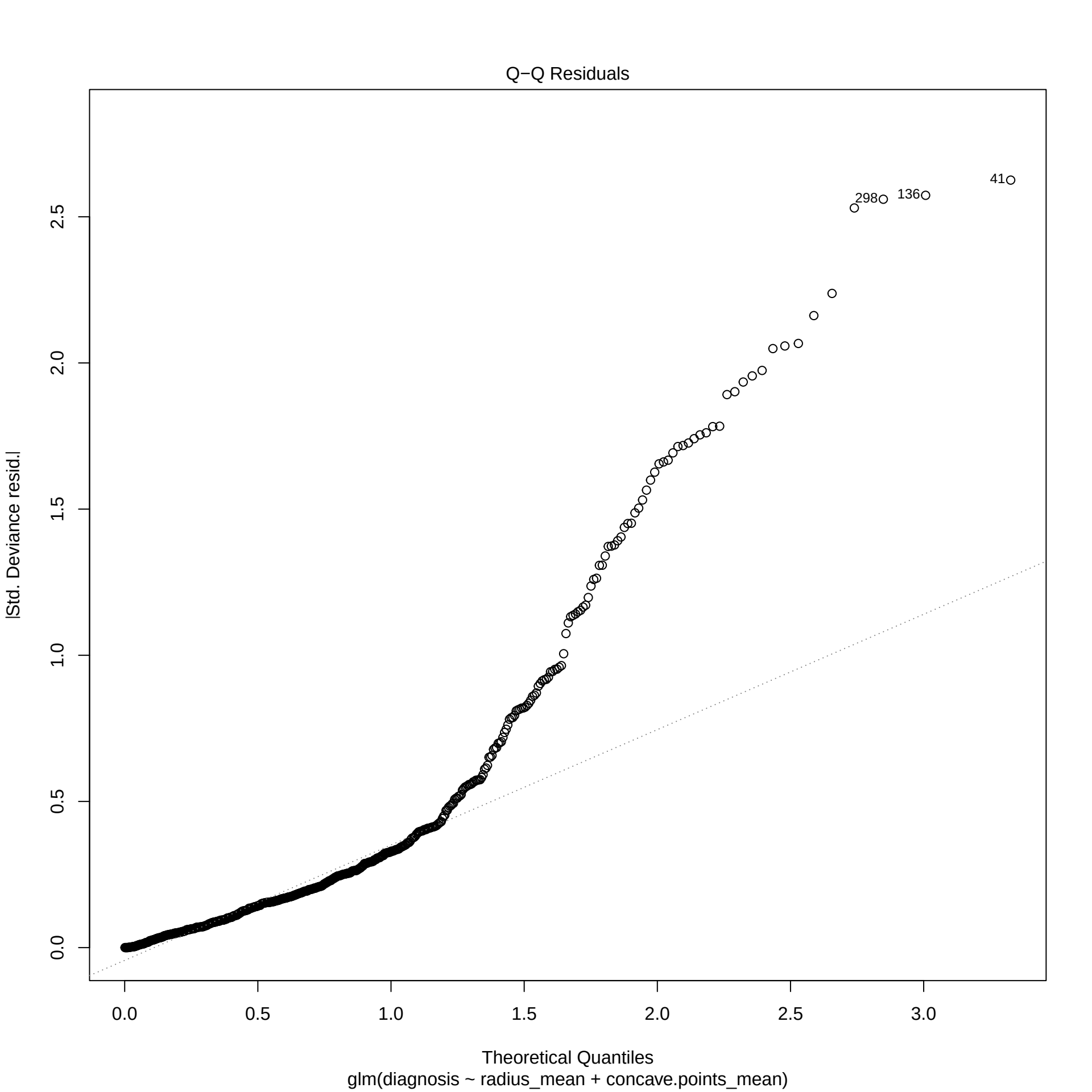

Q−Q Residuals
|Std. Deviance resid.|
0.0
0.5
1.0
1.5
2.0
2.5
3.0
490
41
264
Theoretical Quantiles
glm(diagnosis ~ concave.points_mean + texture_mean)

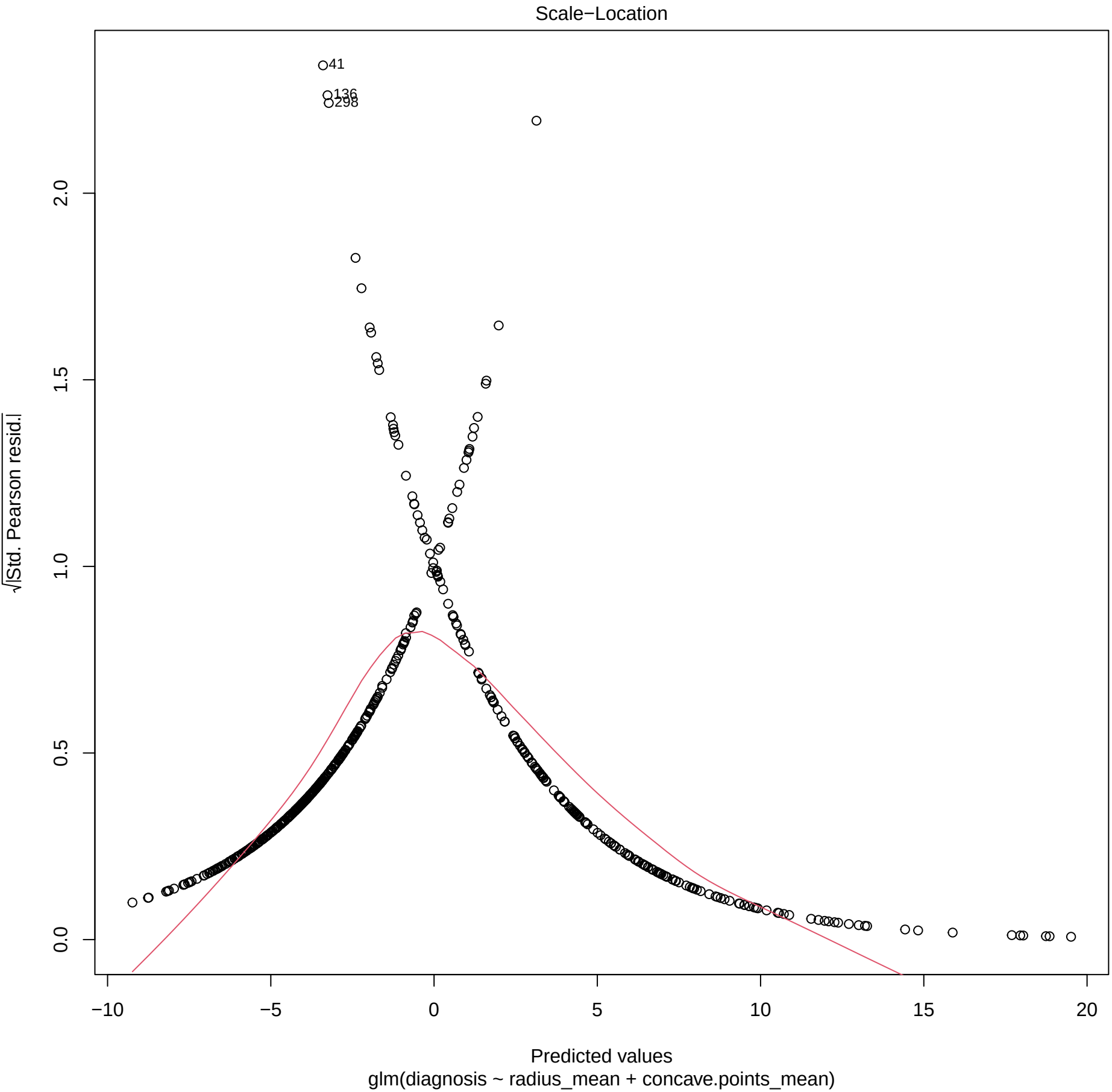

Scale−Location
490
41
264
√|Std. Pearson resid.|
2.5
2.0
1.5
1.0
0.5
0.0
−10
−5
0
5
10
15
Predicted values
glm(diagnosis ~ concave.points_mean + texture_mean)

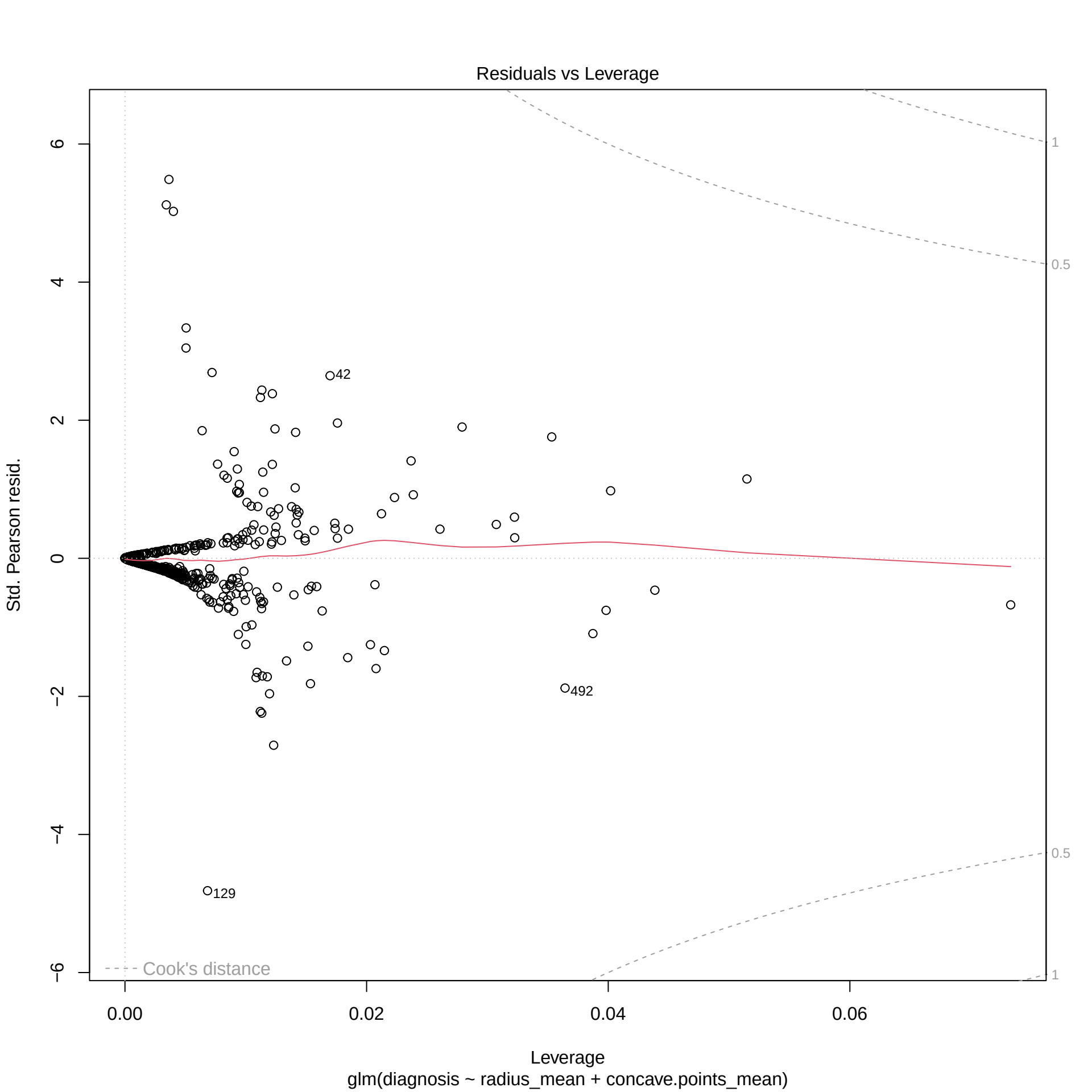

Residuals vs Leverage
Std. Pearson resid.
6
4
2
0
−2
−4
0.00
0.02
0.04
0.06
Leverage
glm(diagnosis ~ concave.points_mean + texture_mean)
1
0.5
0.5
Cook's distance
456
129
113

Modelo C

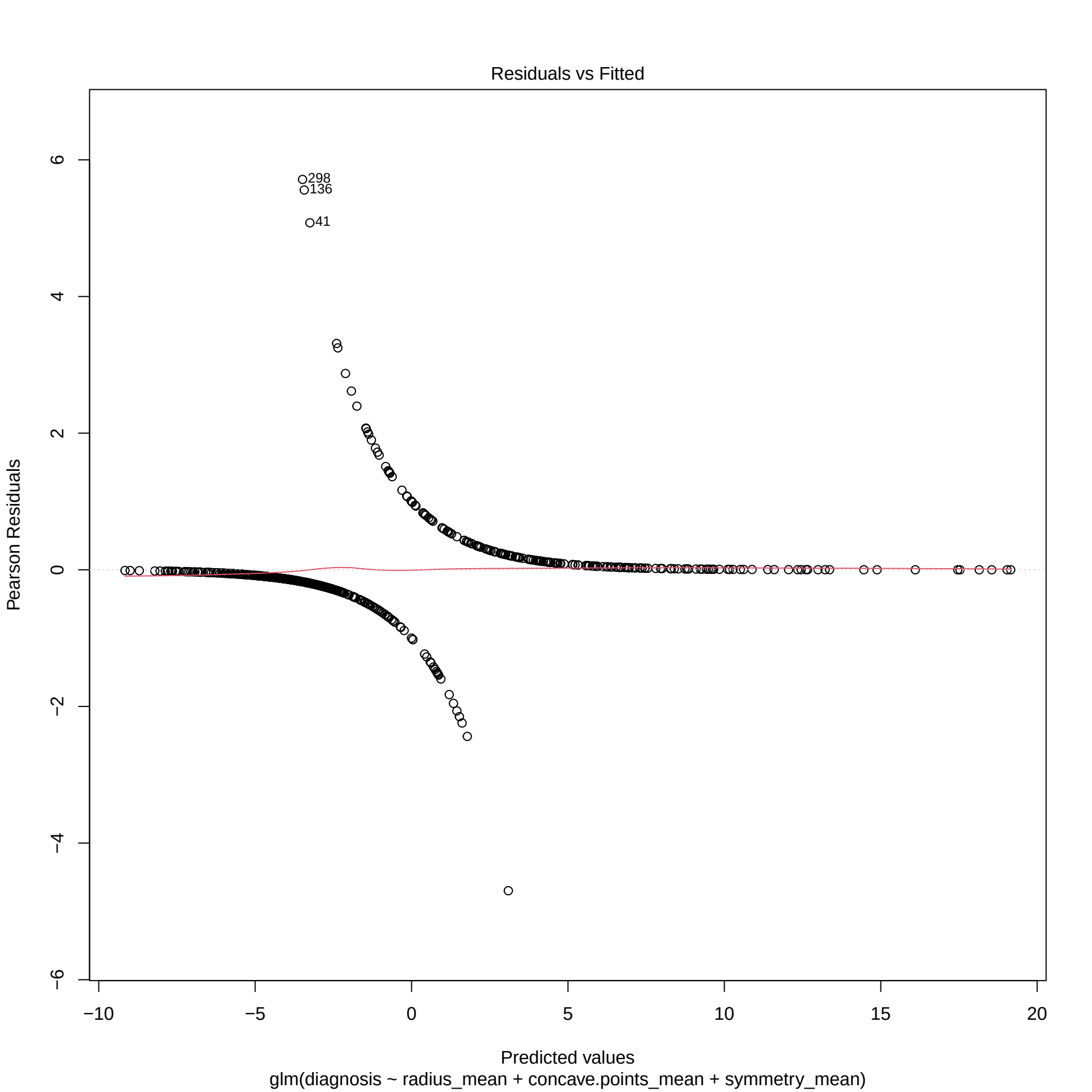

Residuals vs Fitted
41
136
298
Pearson Residuals
6
4
2
0
−2
−4
−6
−10
−5
0
5
10
15
20
Predicted values
glm(diagnosis ~ radius_mean + concave.points_mean)

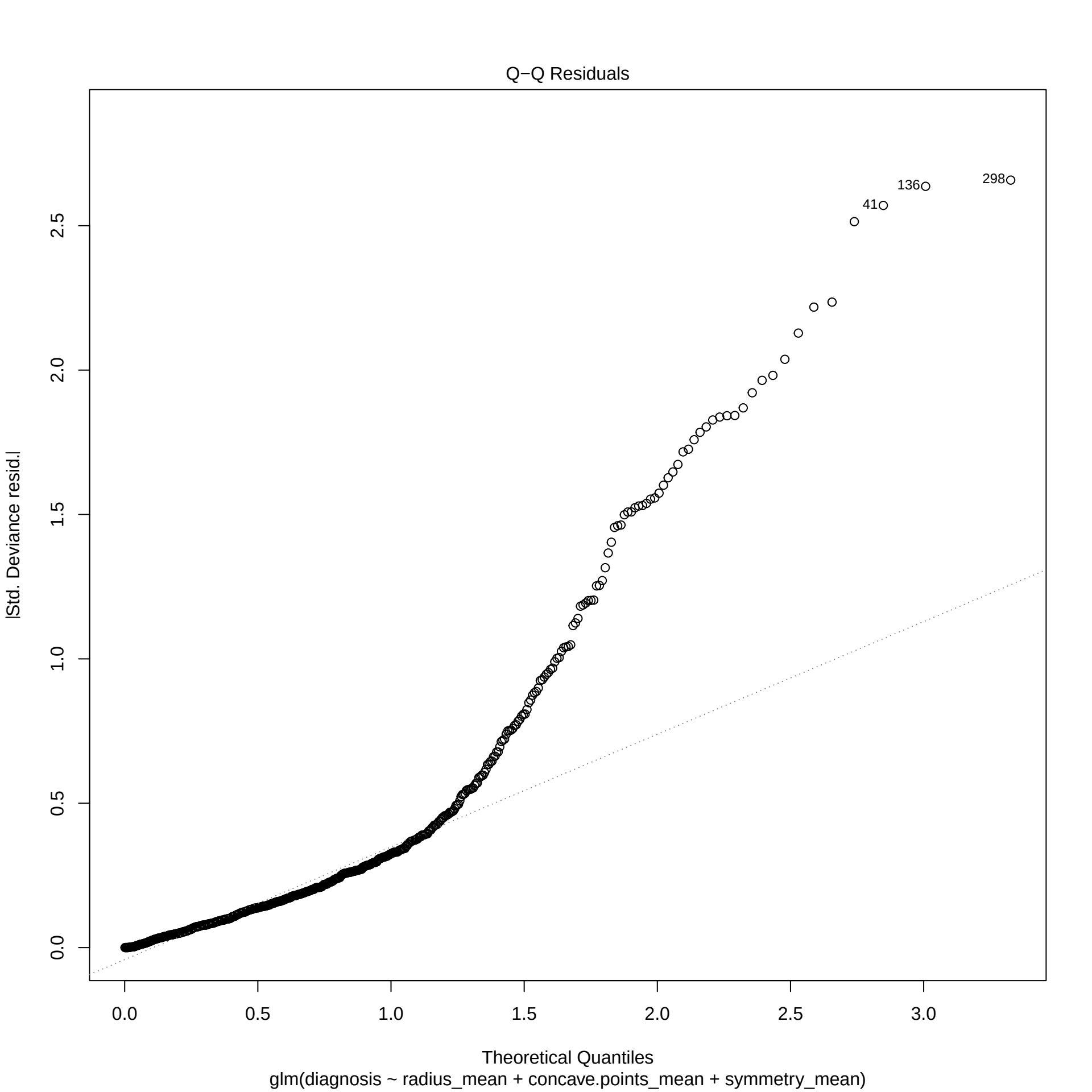

Q−Q Residuals
|Std. Deviance resid.|
0.0
0.5
1.0
1.5
2.0
2.5
3.0
41
298
136
Theoretical Quantiles
glm(diagnosis ~ radius_mean + concave.points_mean)

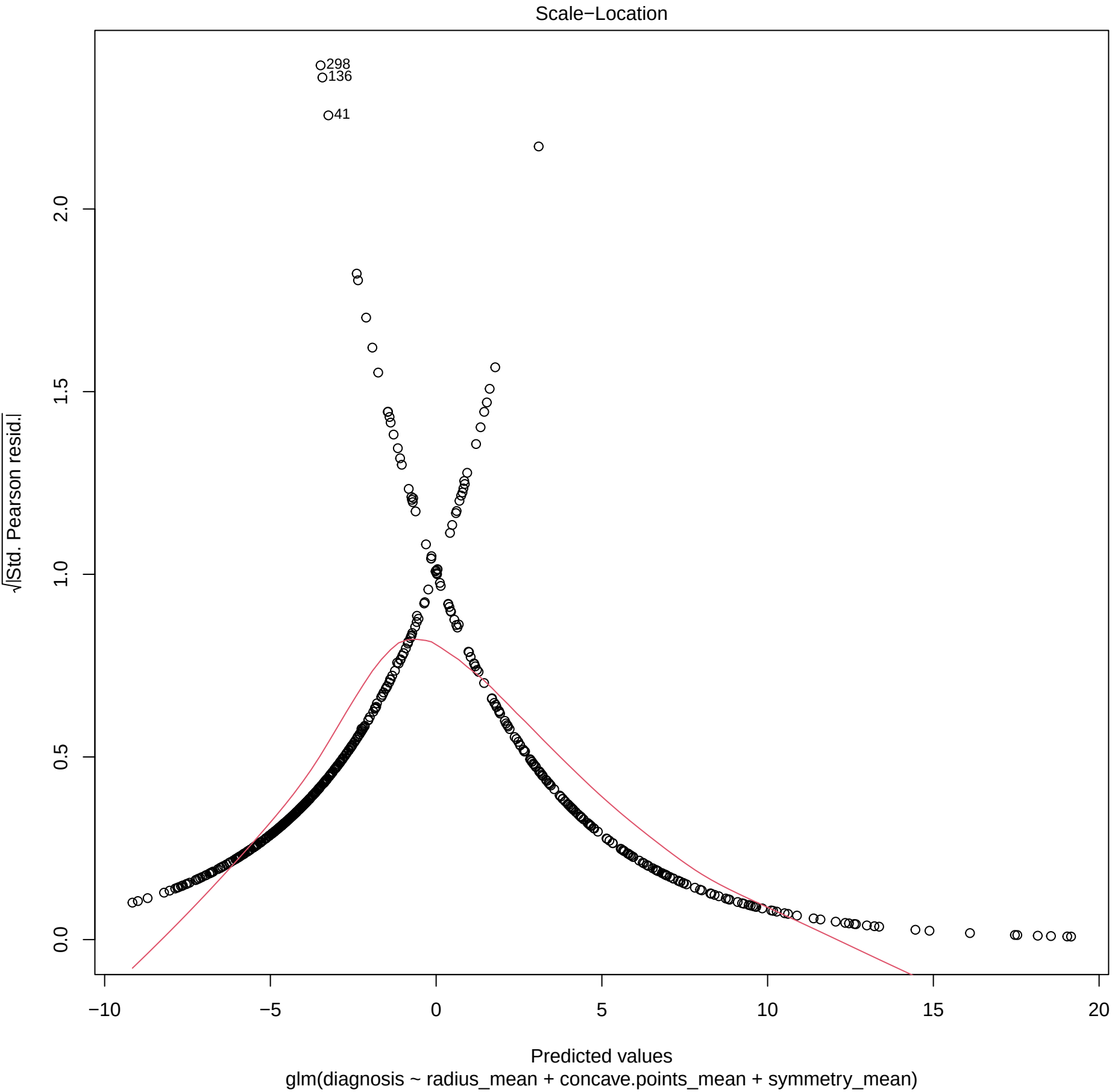

Scale−Location
41
136
298
√|Std. Pearson resid.|
0.0
0.5
1.0
1.5
2.0
−10
−5
0
5
10
15
20
Predicted values
glm(diagnosis ~ radius_mean + concave.points_mean)

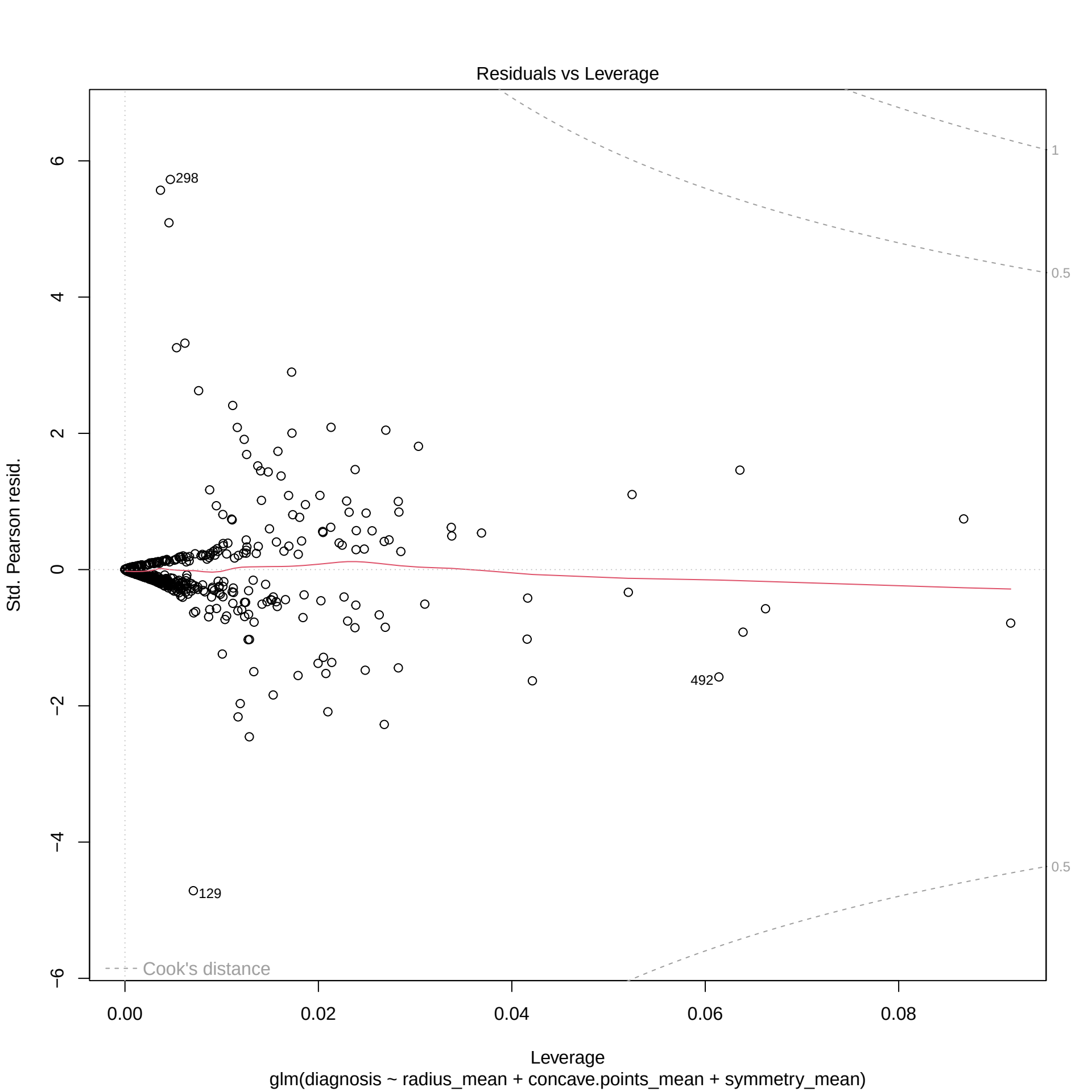

Residuals vs Leverage
Std. Pearson resid.
6
4
2
0
−2
−4
−6
0.00
0.02
0.04
0.06
Leverage
glm(diagnosis ~ radius_mean + concave.points_mean)
42
492
129
Cook's distance
1
0.5
0.5
1

Modelo D

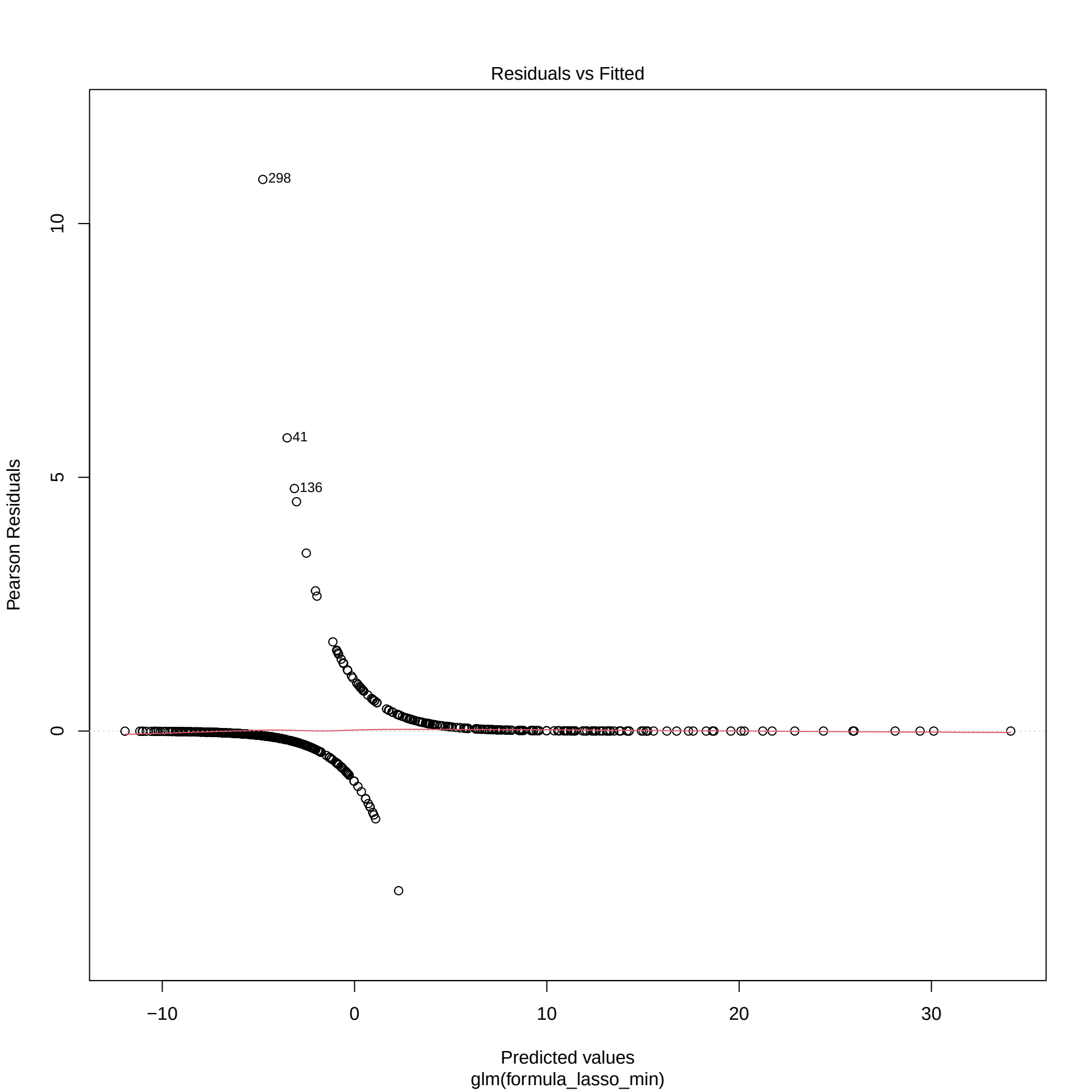

Residuals vs Fitted
Pearson Residuals
Predicted values
glm(diagnosis ~ radius_mean + concave.points_mean + symmetry_mean)
298
136
41
6
4
2
0
−2
−4
−6
−10
−5
0
5
10
15
20

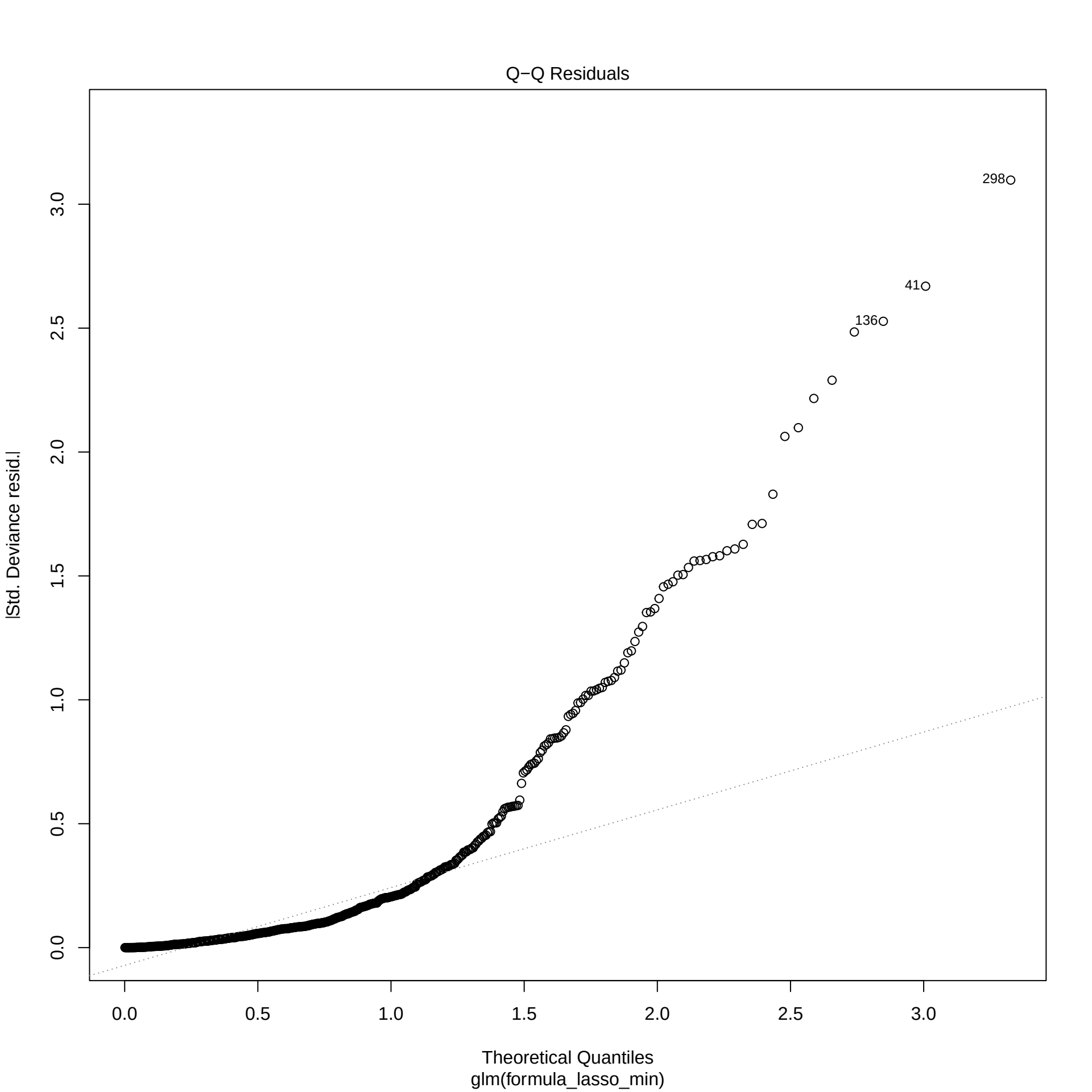

Q−Q Residuals
|Std. Deviance resid.|
0.0
0.5
1.0
1.5
2.0
2.5
3.0
298
136
41
Theoretical Quantiles
glm(diagnosis ~ radius_mean + concave.points_mean + symmetry_mean)

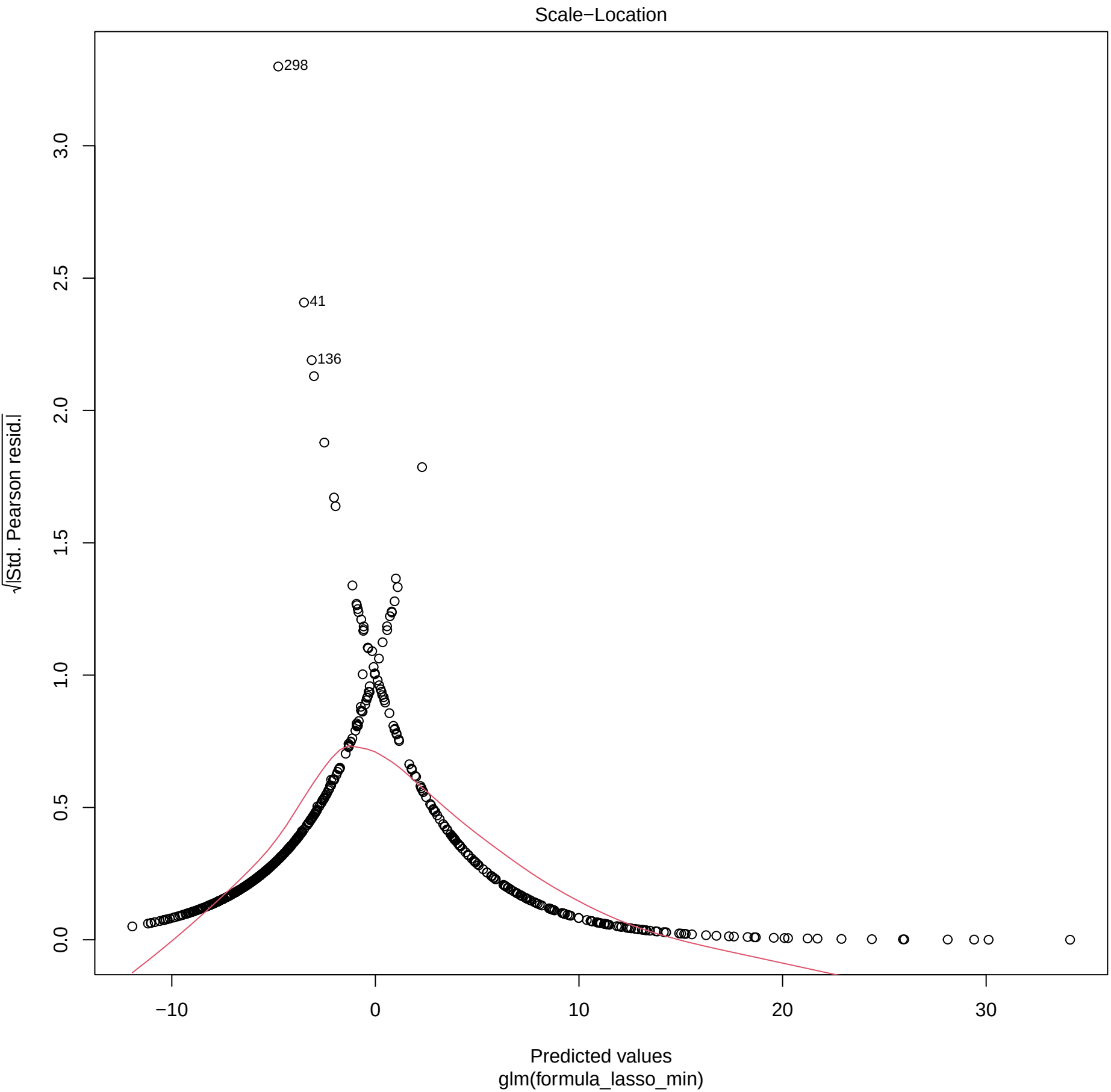

Scale−Location
298
136
41
√|Std. Pearson resid.|
0.0
0.5
1.0
1.5
2.0
−10
−5
0
5
10
15
20
Predicted values
glm(diagnosis ~ radius_mean + concave.points_mean + symmetry_mean)

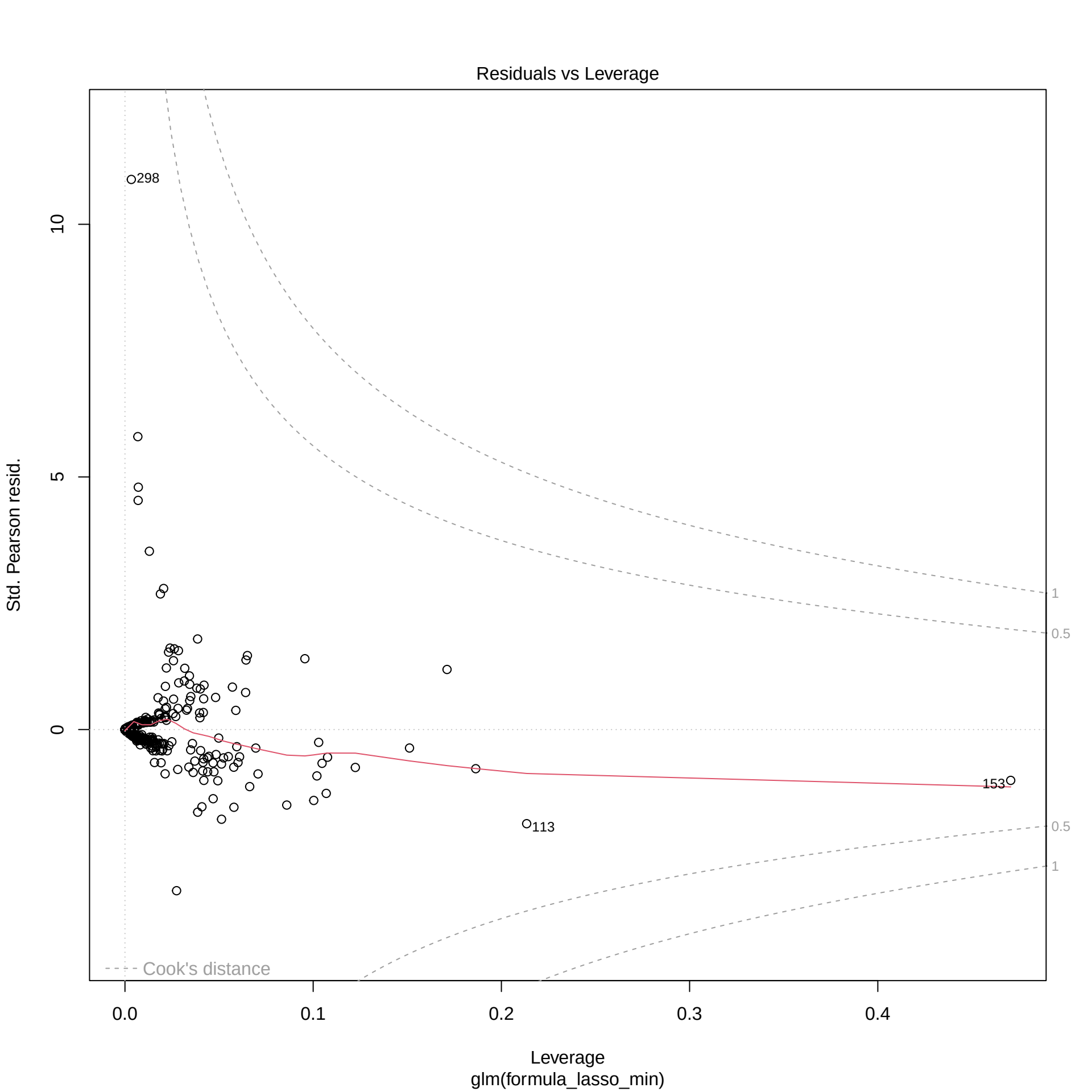

Residuals vs Leverage
Std. Pearson resid.
6
4
2
0
−2
−4
−6
298
129
492
1
0.5
0.5
Cook's distance
0.00
0.02
0.04
0.06
0.08
Leverage
glm(diagnosis ~ radius_mean + concave.points_mean + symmetry_mean)

LASSO (lambda.min)

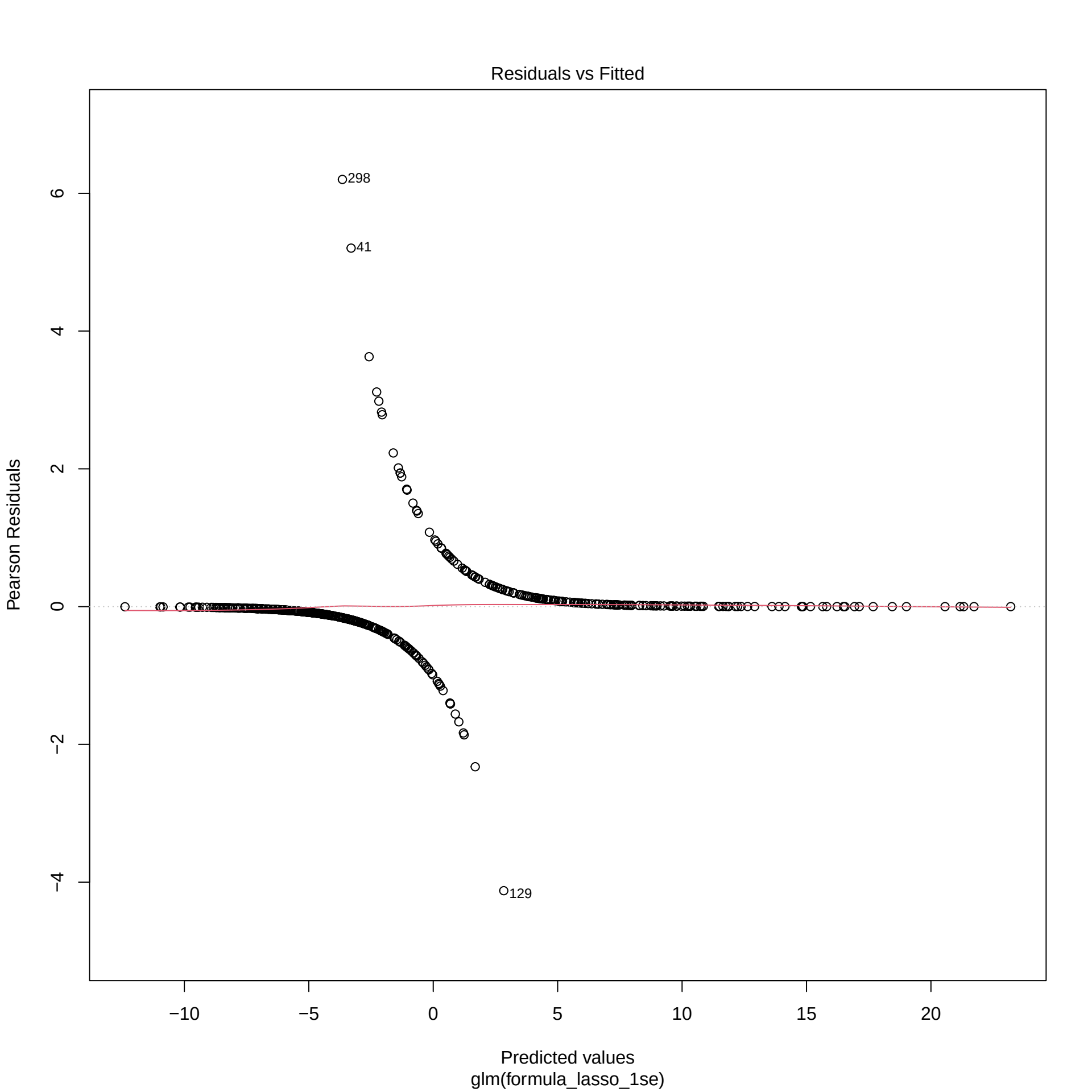

Residuals vs Fitted
298
41
136
Pearson Residuals
10
5
0
−10
0
10
20
30
Predicted values
glm(formula_lasso_min)

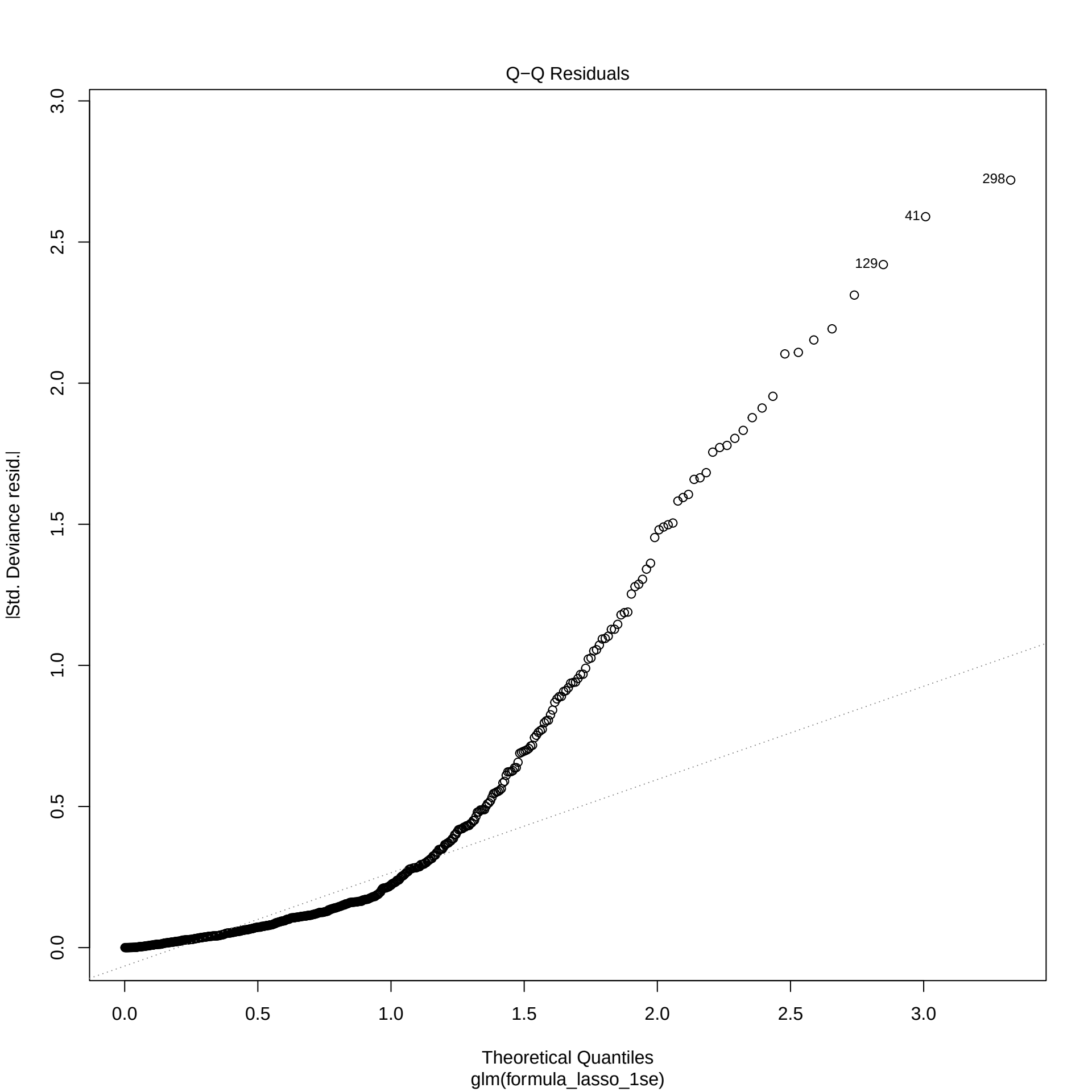

Q−Q Residuals
|Std. Deviance resid.|
0.0
0.5
1.0
1.5
2.0
2.5
3.0
298
41
136
Theoretical Quantiles
glm(formula_lasso_min)

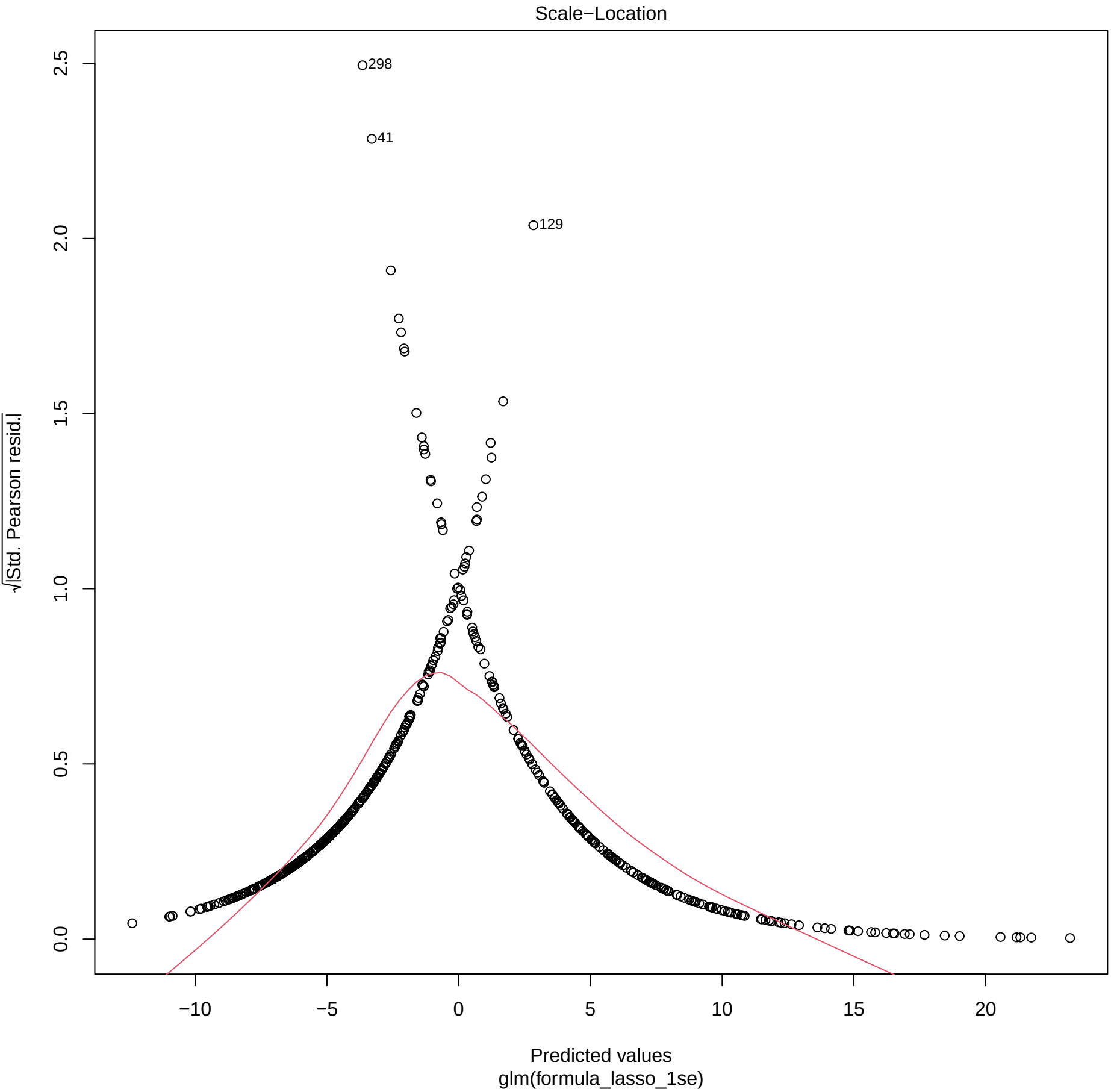

Scale−Location
298
41
136
√|Std. Pearson resid.|
0.0
0.5
1.0
1.5
2.0
2.5
3.0
−10
0
10
20
30
Predicted values
glm(formula_lasso_min)

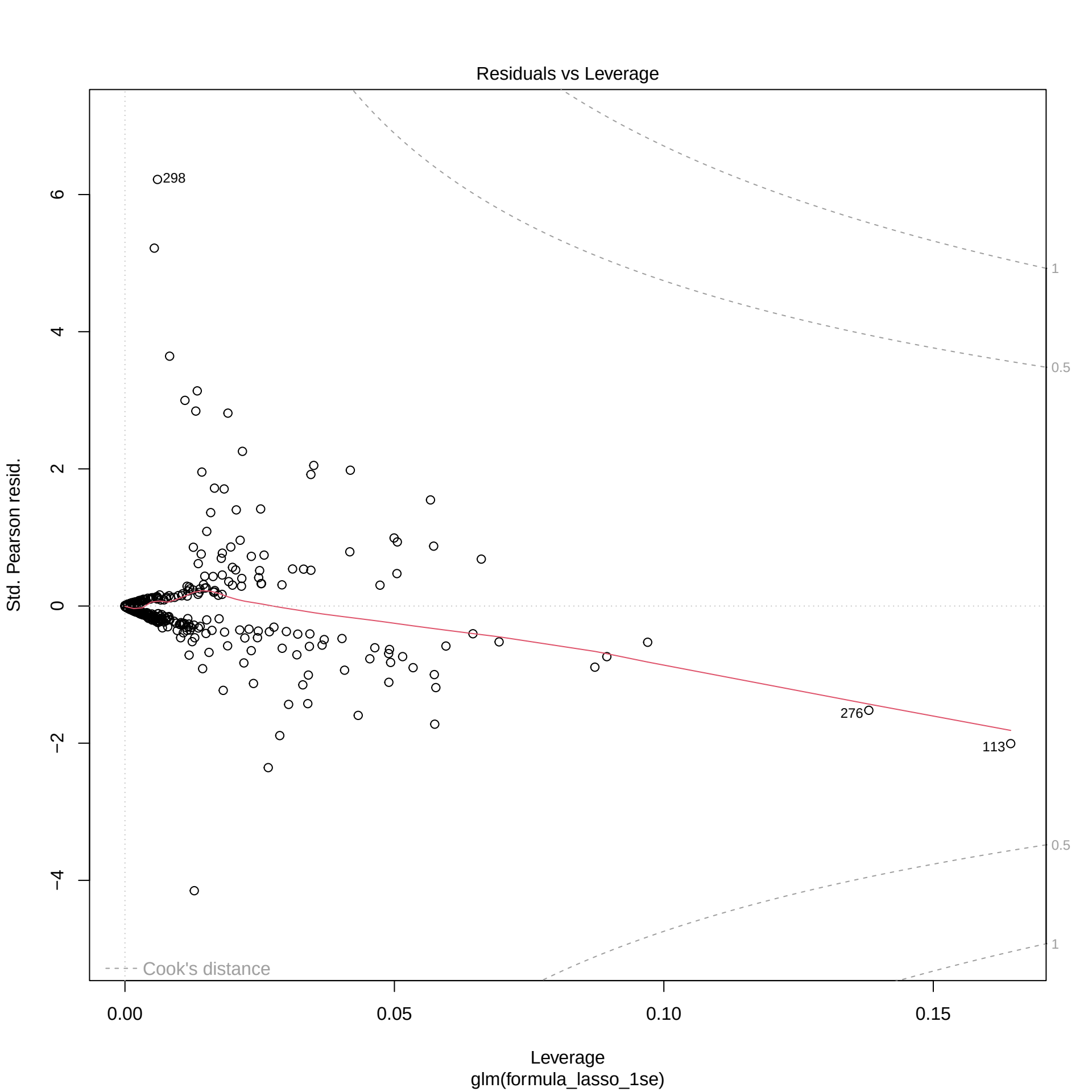

Residuals vs Leverage
Std. Pearson resid.
10
5
0
298
153
113
1
0.5
0.5
1
Cook's distance
0.0
0.1
0.2
0.3
0.4
Leverage
glm(formula_lasso_min)

LASSO (lambda.1se)

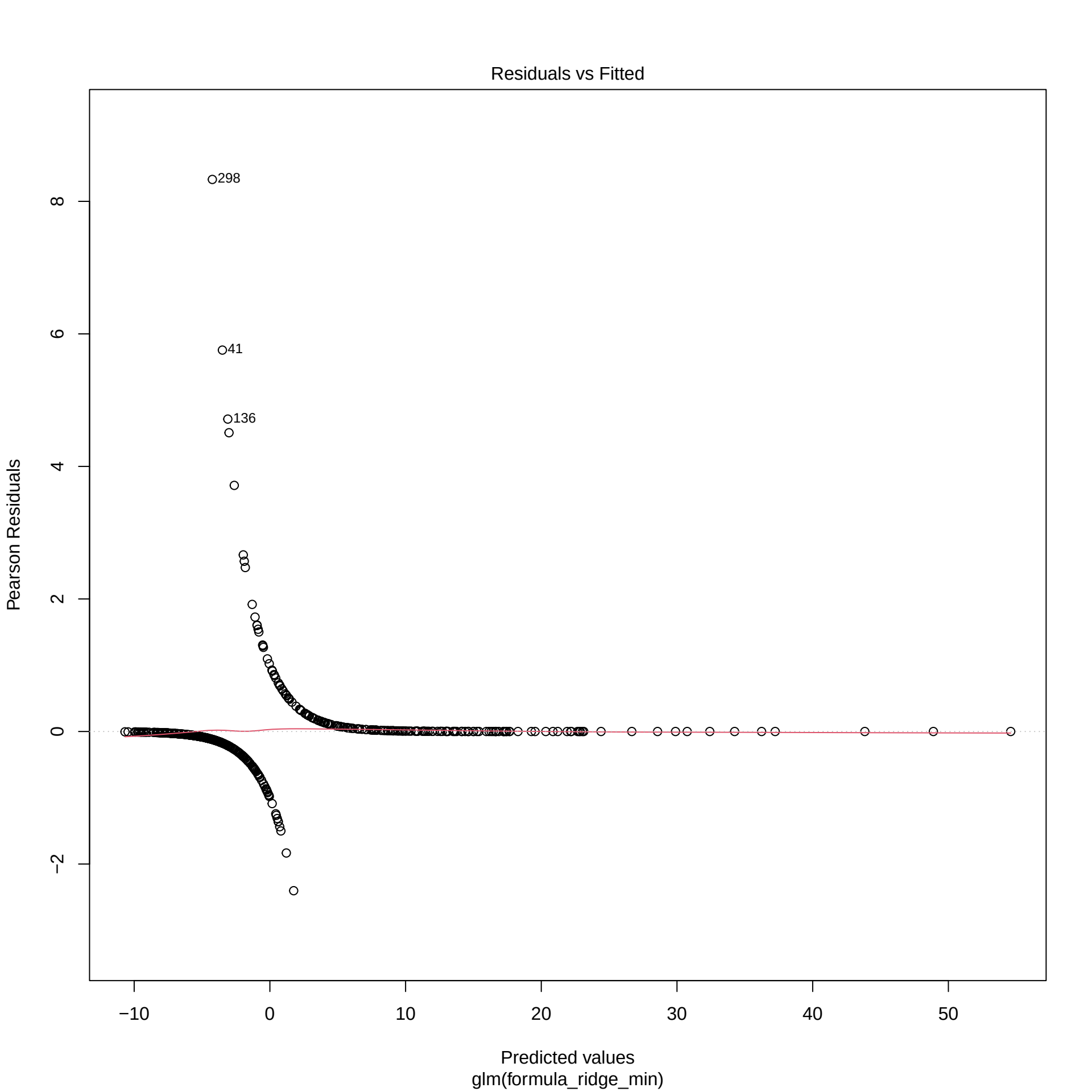

Residuals vs Fitted
298
41
129
Pearson Residuals
6
4
2
0
−2
−4
−10
−5
0
5
10
15
20
Predicted values
glm(formula_lasso_1se)

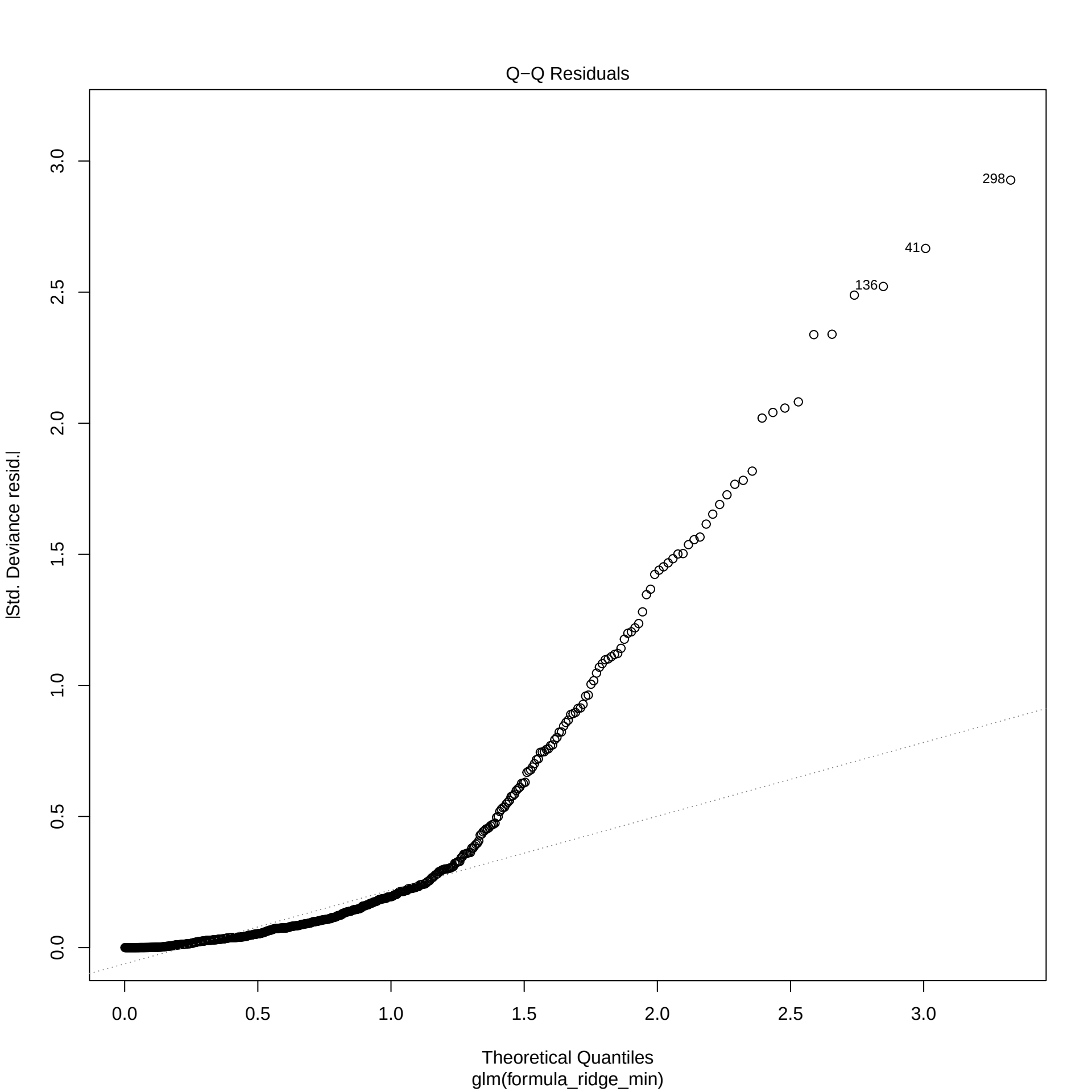

Q−Q Residuals
|Std. Deviance resid.|
0.0
0.5
1.0
1.5
2.0
2.5
3.0
298
41
129
Theoretical Quantiles
glm(formula_lasso_1se)

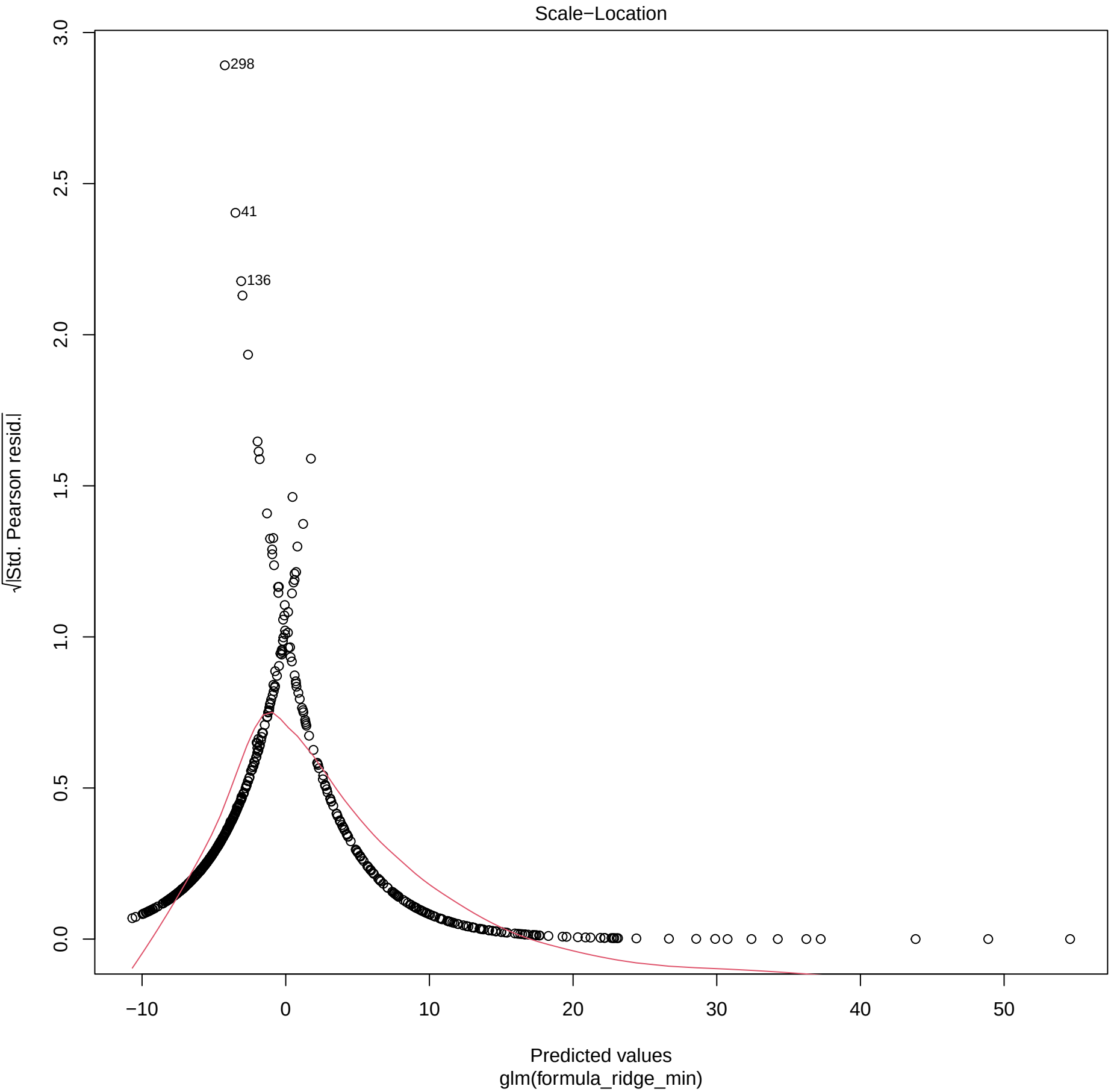

Scale−Location
298
41
129
√|Std. Pearson resid.|
0.0
0.5
1.0
1.5
2.0
2.5
−10
−5
0
5
10
15
20
Predicted values
glm(formula_lasso_1se)

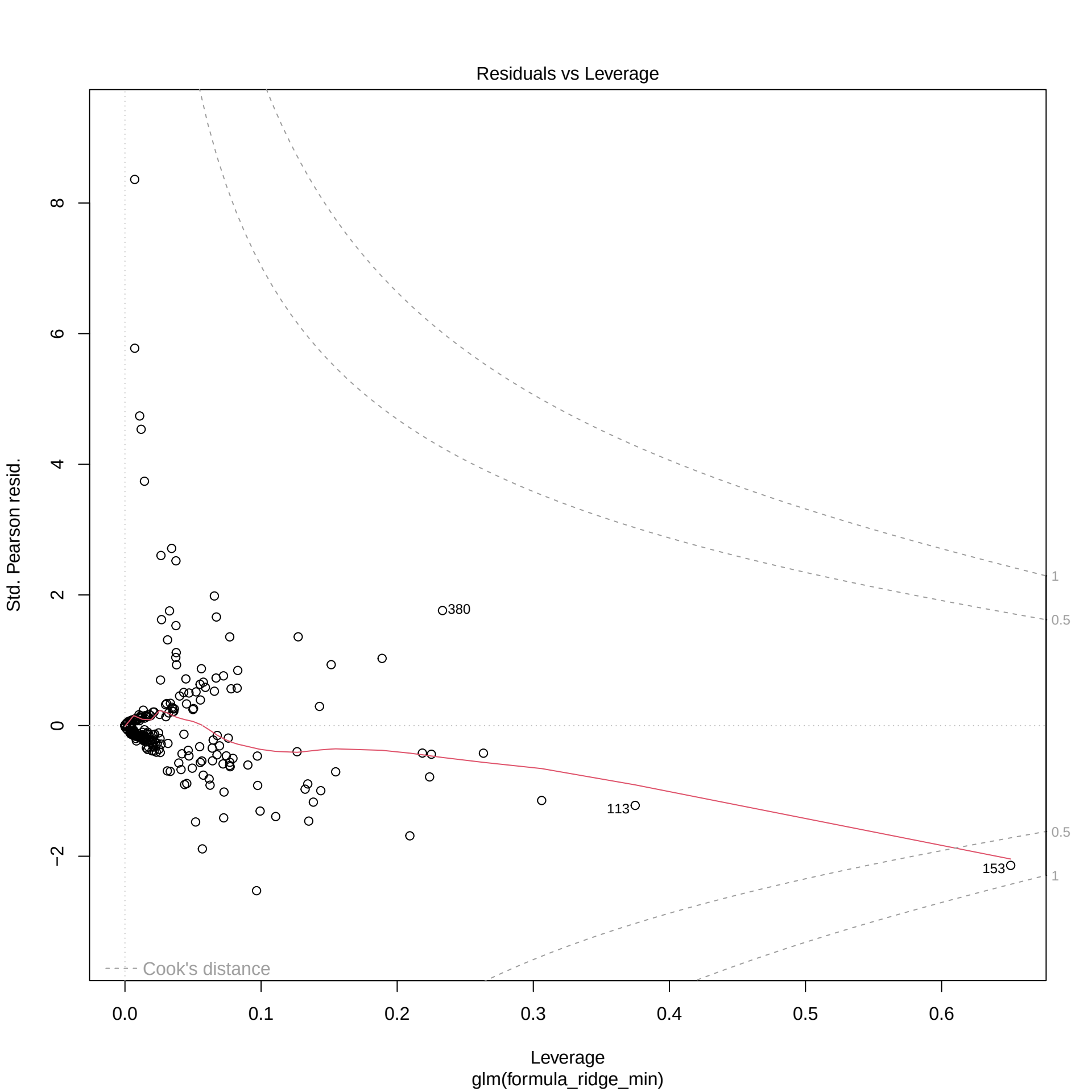

Residuals vs Leverage
Std. Pearson resid.
6
4
2
0
−2
−4
298
276
113
1
0.5
0.5
1
Cook's distance
0.00
0.05
0.10
0.15
Leverage
glm(formula_lasso_1se)

Ridge (lambda.min)

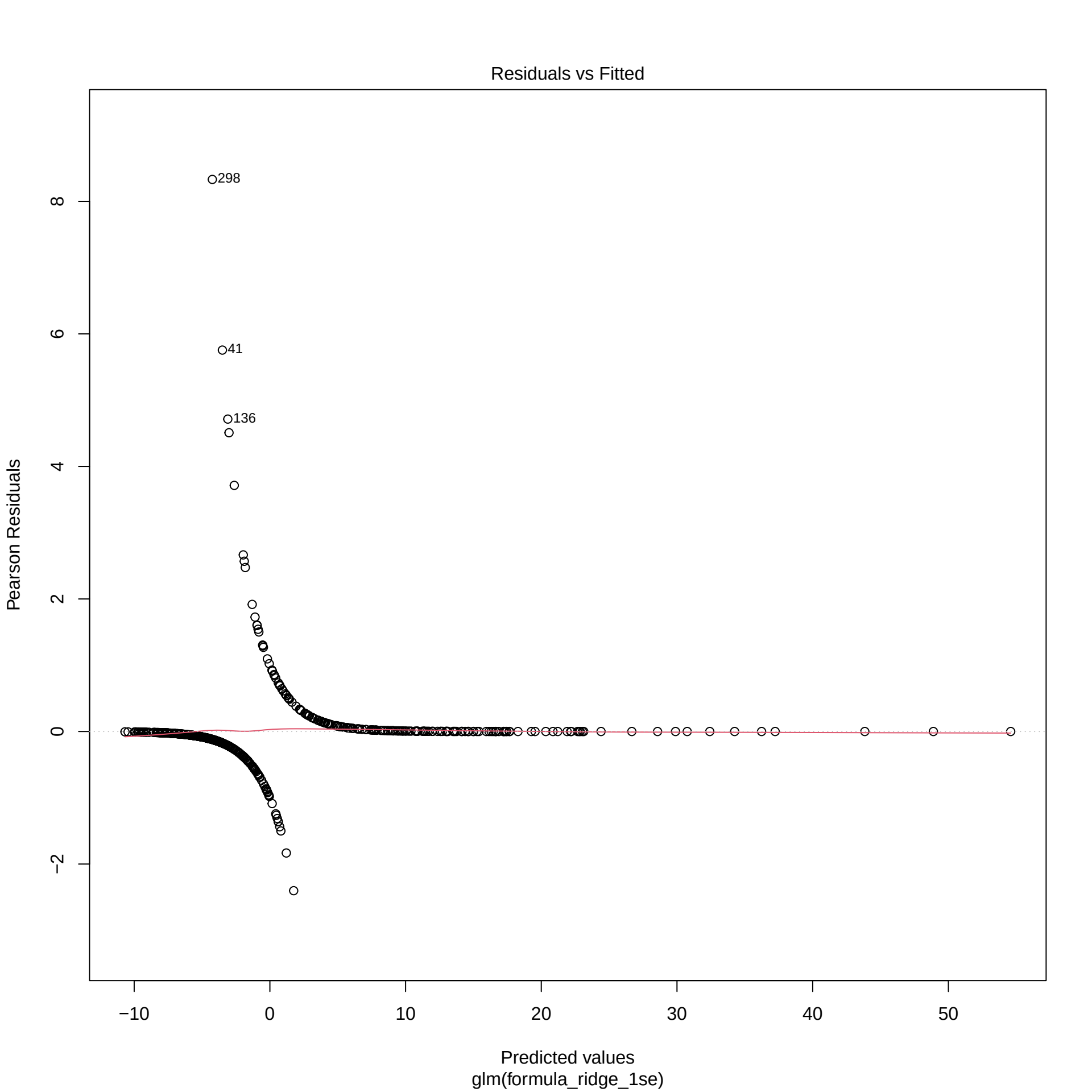

Residuals vs Fitted
298
41
136
Pearson Residuals
8
6
4
2
0
−2
−10
0
10
20
30
40
50
Predicted values
glm(formula_ridge_min)

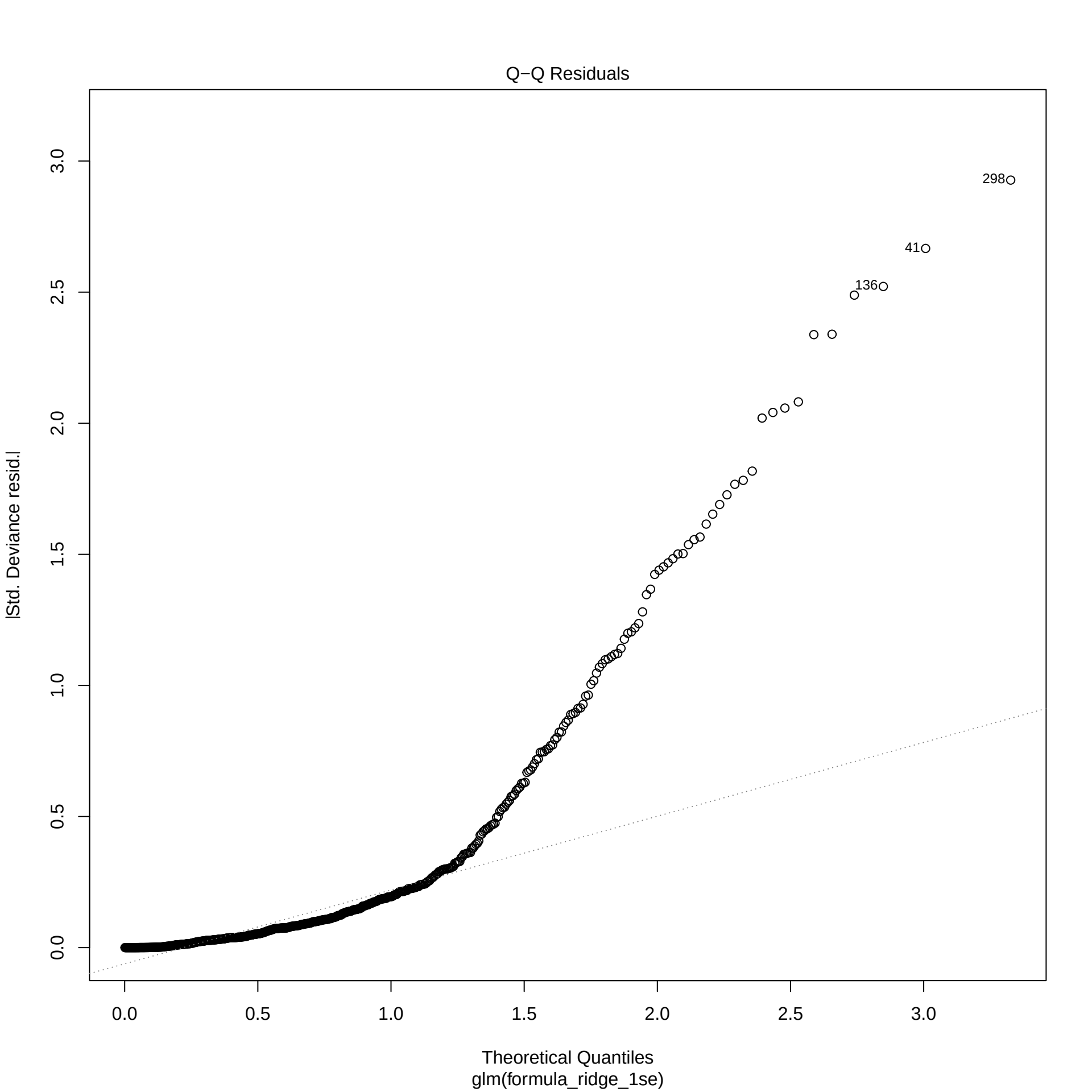

Q−Q Residuals
|Std. Deviance resid.|
0.0
0.5
1.0
1.5
2.0
2.5
3.0
298
41
136
Theoretical Quantiles
glm(formula_ridge_min)

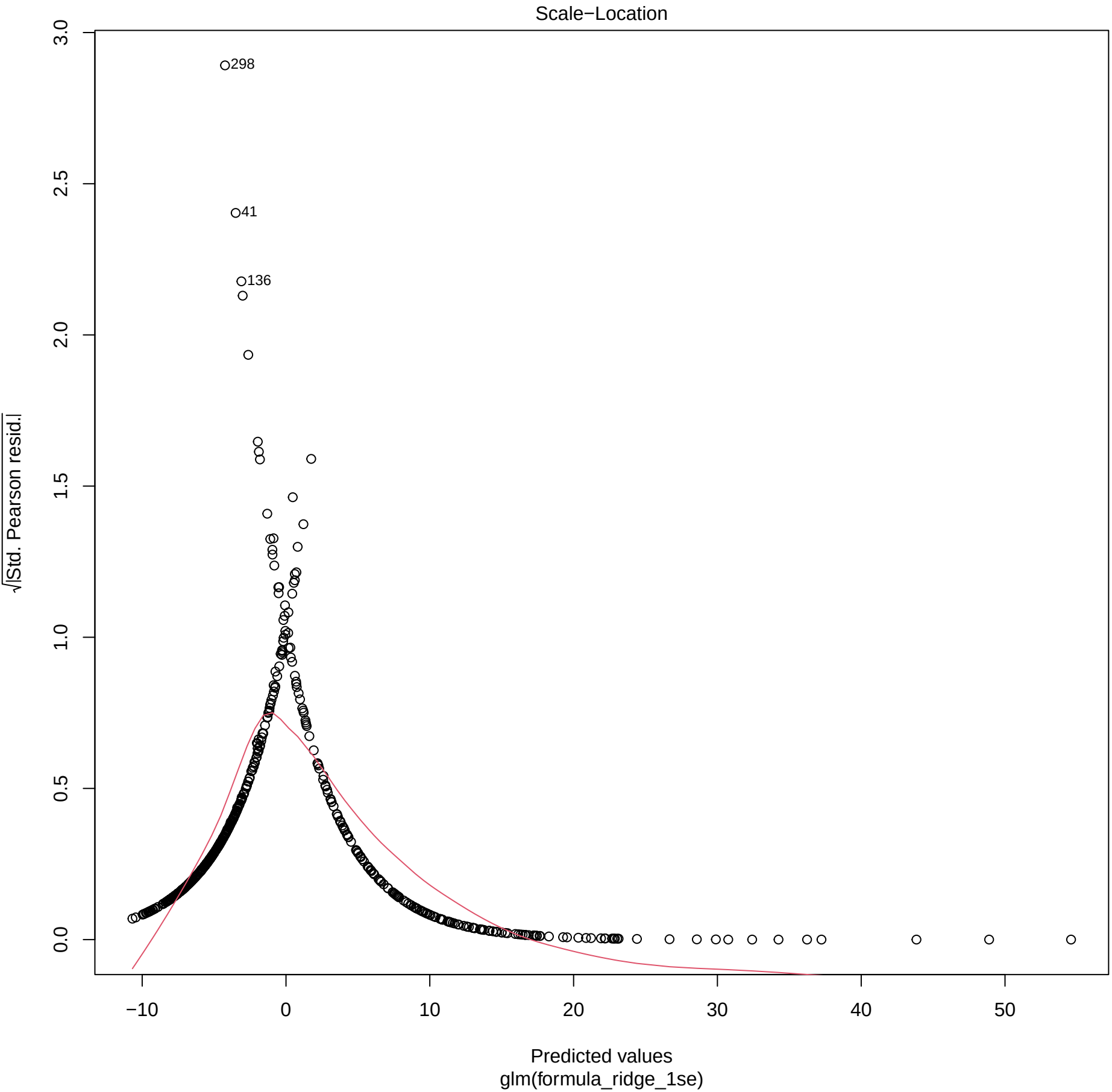

Scale−Location
√|Std. Pearson resid.|
3.0
2.5
2.0
1.5
1.0
0.5
0.0
298
41
136
−10
0
10
20
30
40
50
Predicted values
glm(formula_ridge_min)

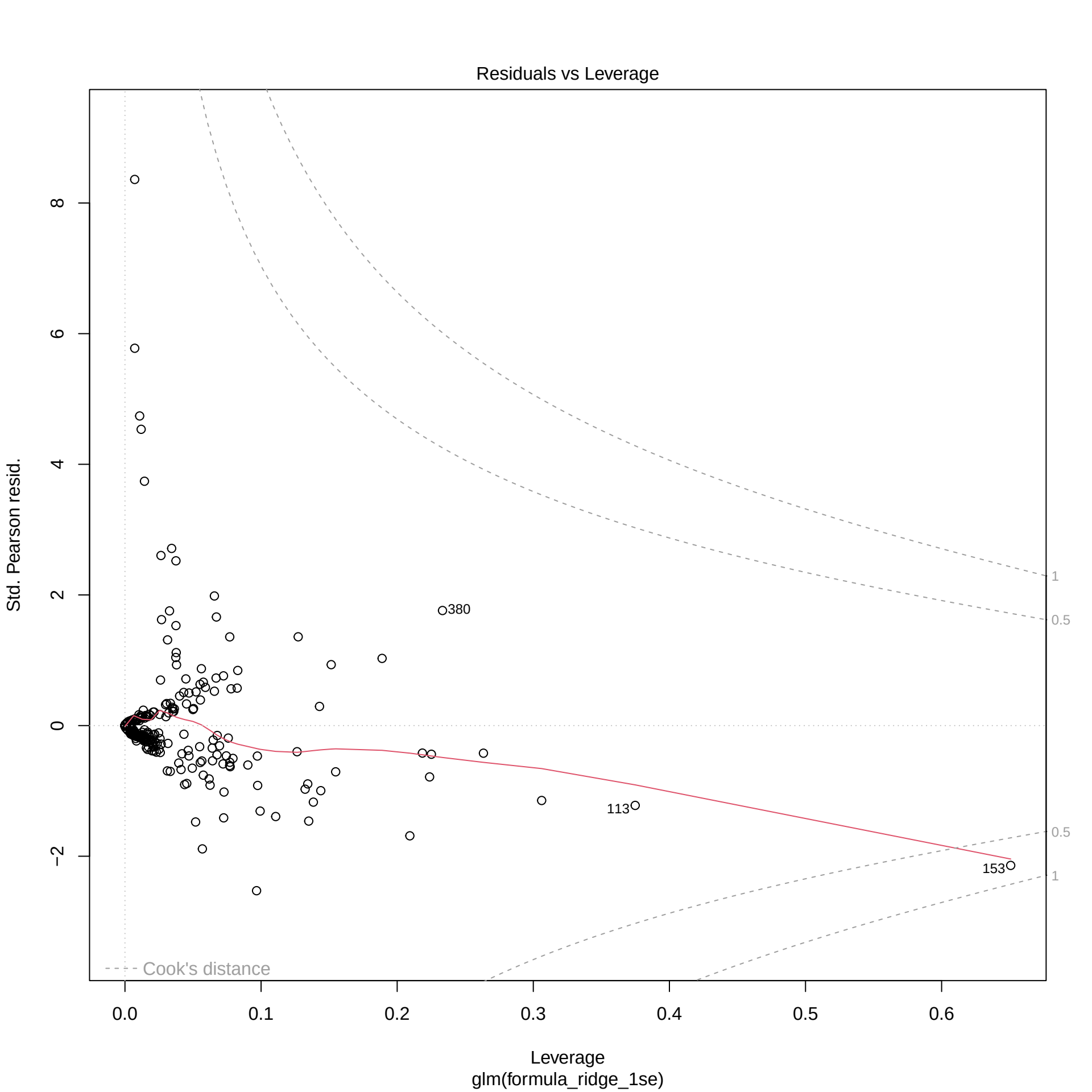

Residuals vs Leverage
Std. Pearson resid.
8
6
4
2
0
−2
380
113
153
1
0.5
0.5
1
Cook's distance
0.0
0.1
0.2
0.3
0.4
0.5
0.6
Leverage
glm(formula_ridge_min)

Ridge (lambda.1se)


Residuals vs Fitted
298
41
136
Pearson Residuals
8
6
4
2
0
−2
−10
0
10
20
30
40
50
Predicted values
glm(formula_ridge_1se)


Q−Q Residuals
|Std. Deviance resid.|
0.0
0.5
1.0
1.5
2.0
2.5
3.0
298
41
136
Theoretical Quantiles
glm(formula_ridge_1se)


Scale−Location
√|Std. Pearson resid.|
Predicted values
glm(formula_ridge_1se)
298
41
136
3.0
2.5
2.0
1.5
1.0
0.5
0.0
−10
0
10
20
30
40
50


Residuals vs Leverage
Std. Pearson resid.
8
6
4
2
0
−2
380
113
153
1
0.5
0.5
1
Cook's distance
0.0
0.1
0.2
0.3
0.4
0.5
0.6
Leverage
glm(formula_ridge_1se)