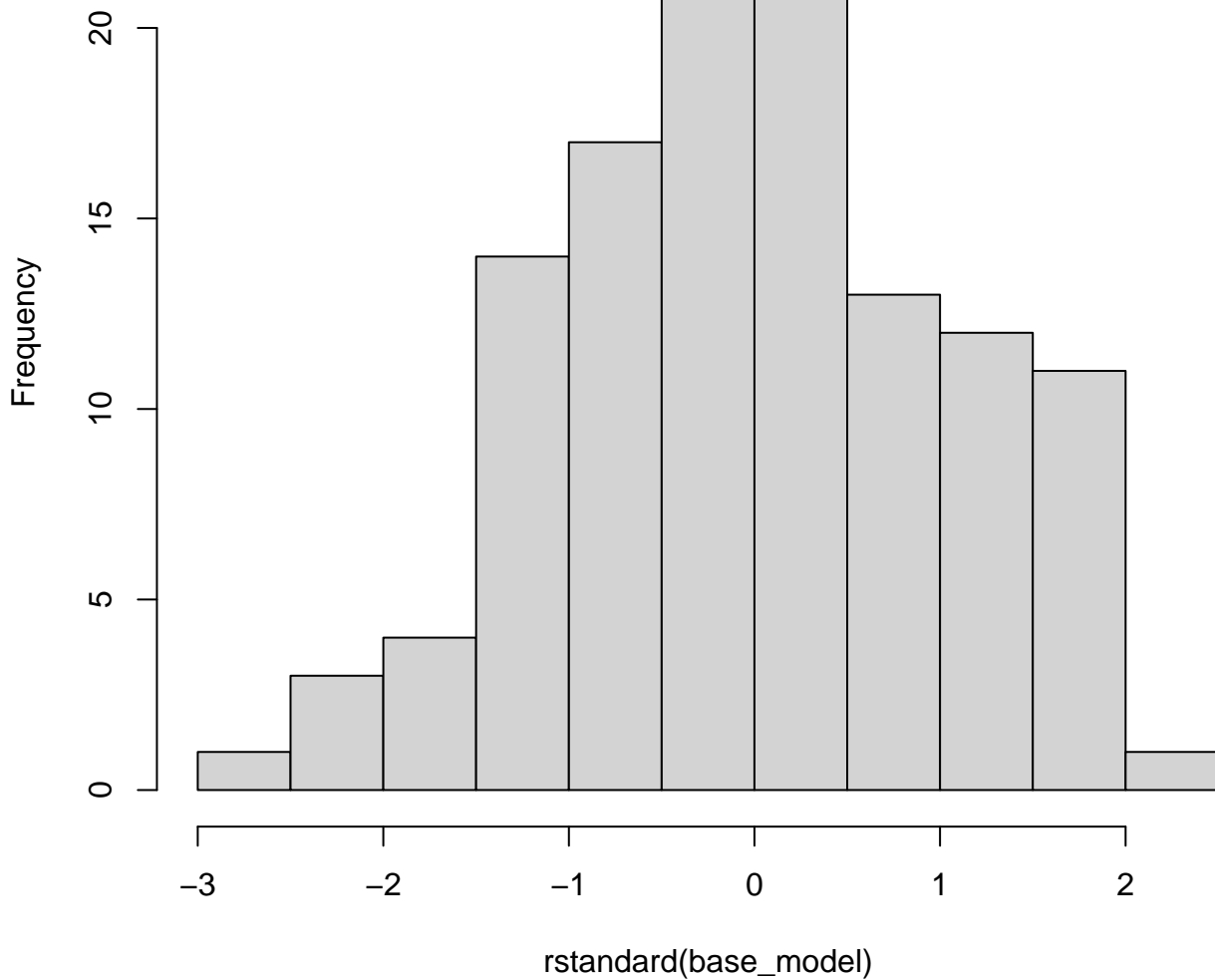
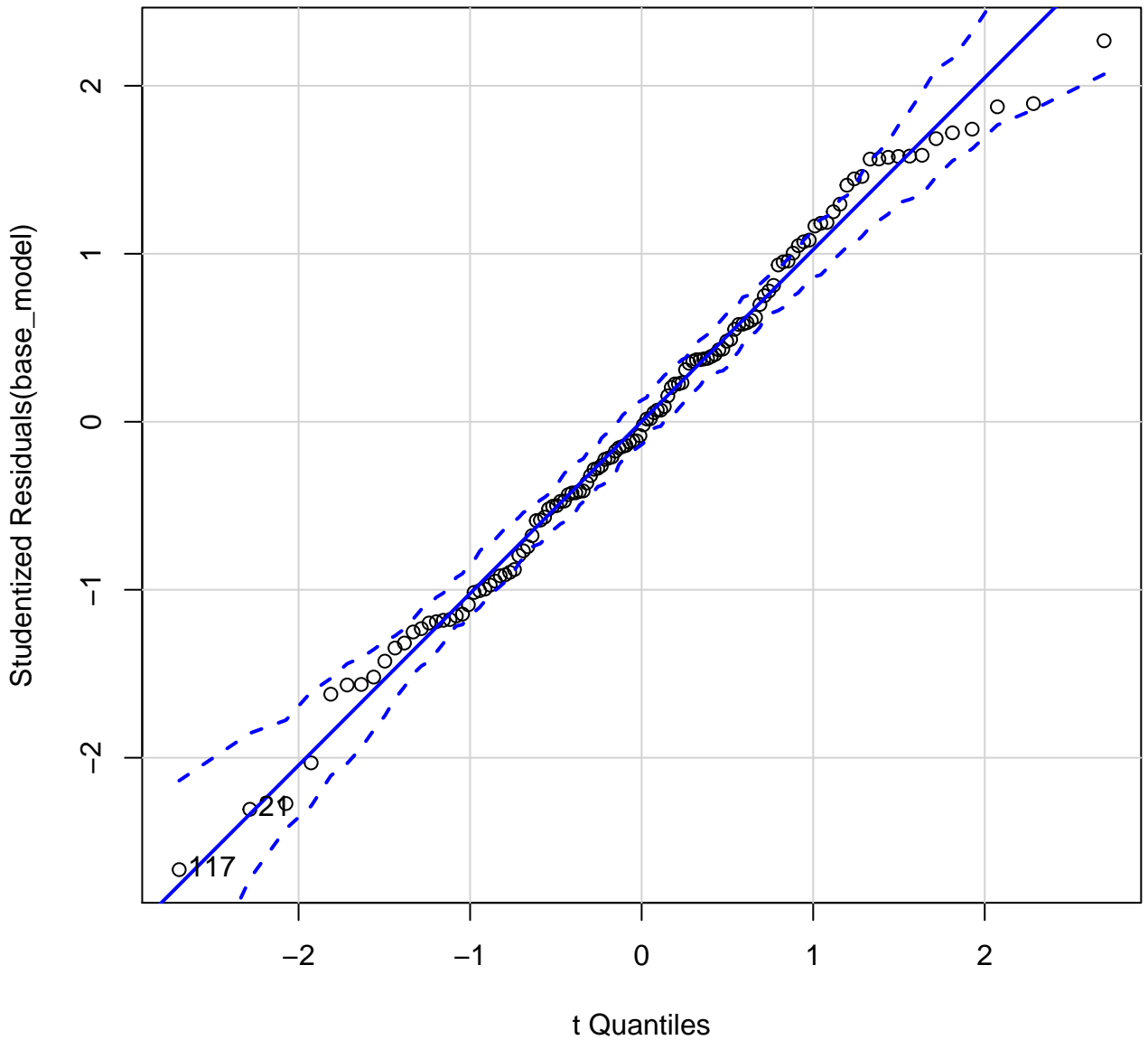


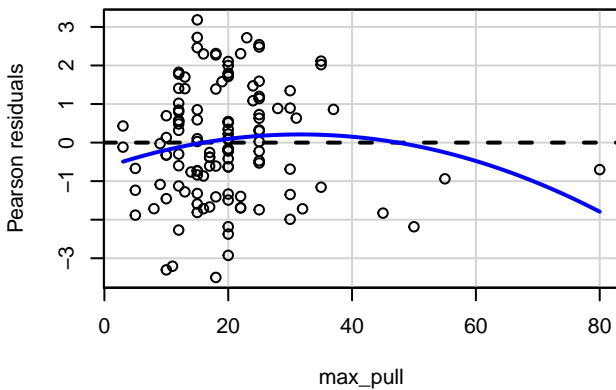
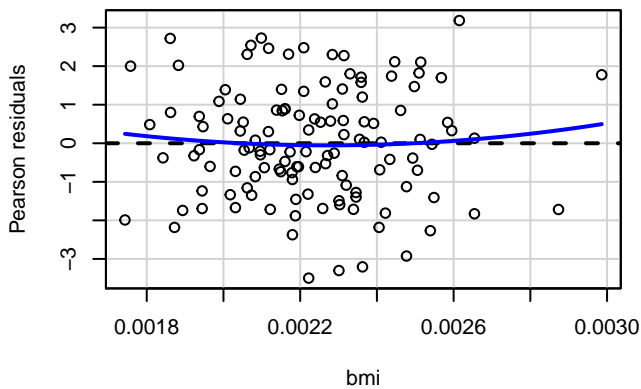
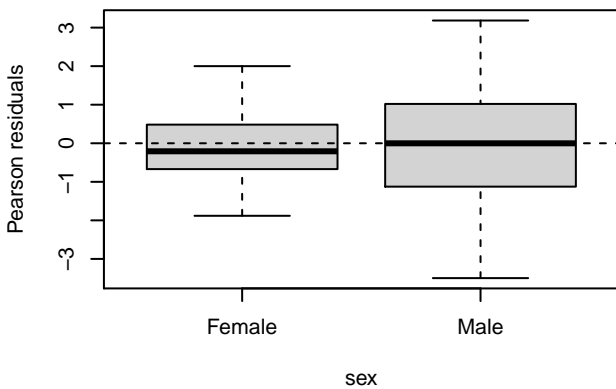
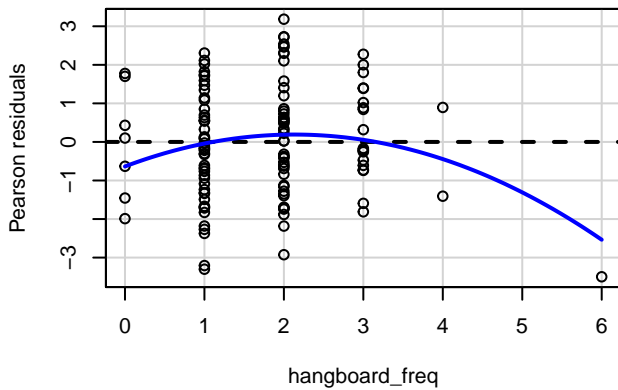
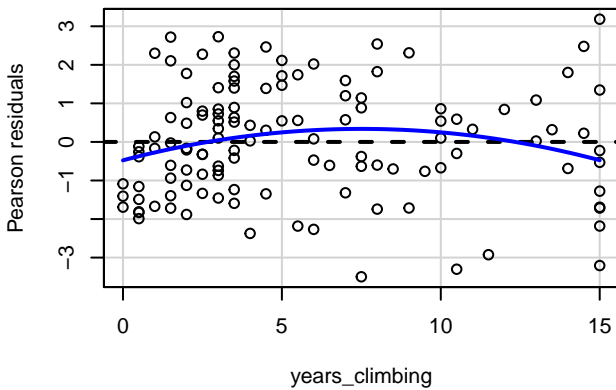
Histogram of rstandard(base_model)



Base Model

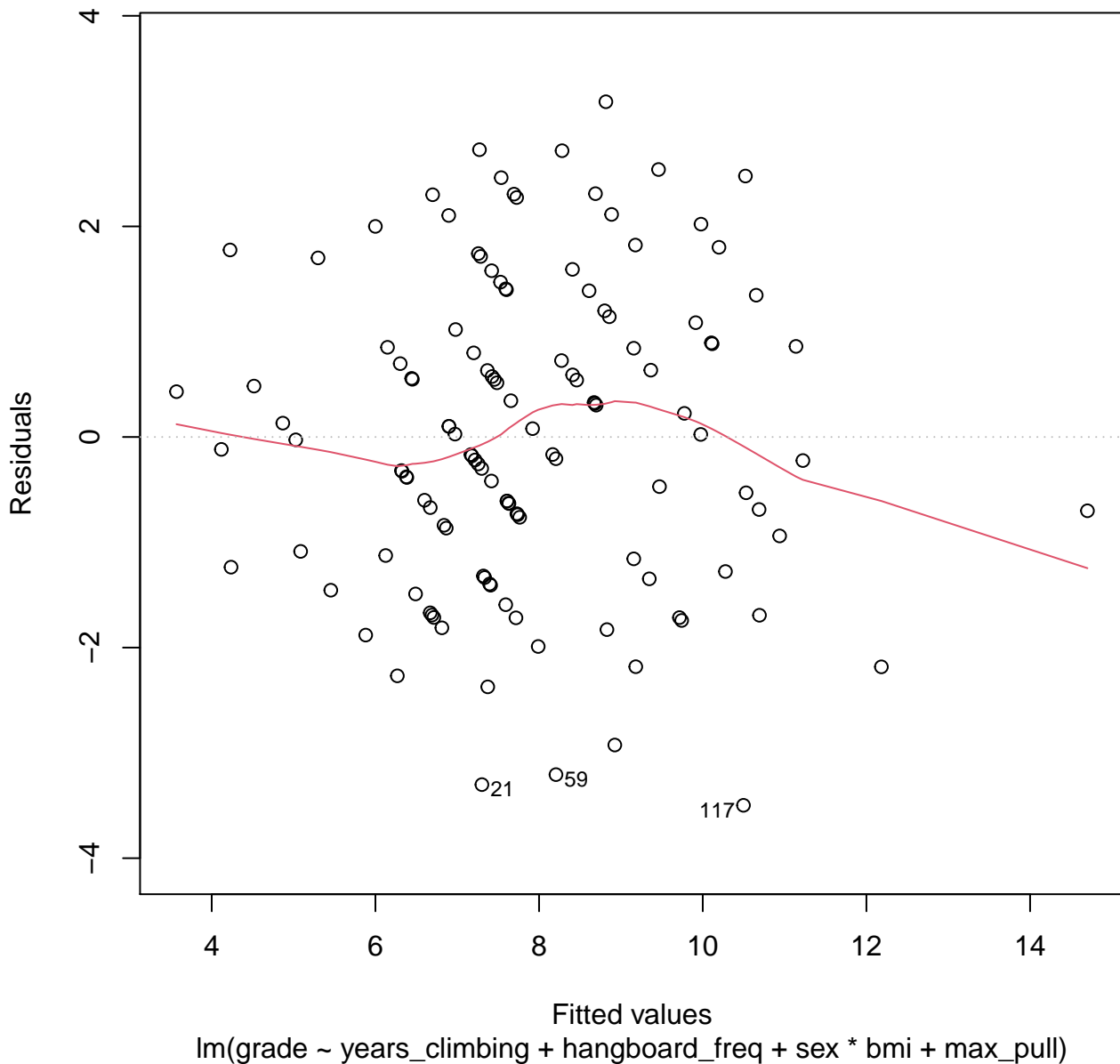


Base Model



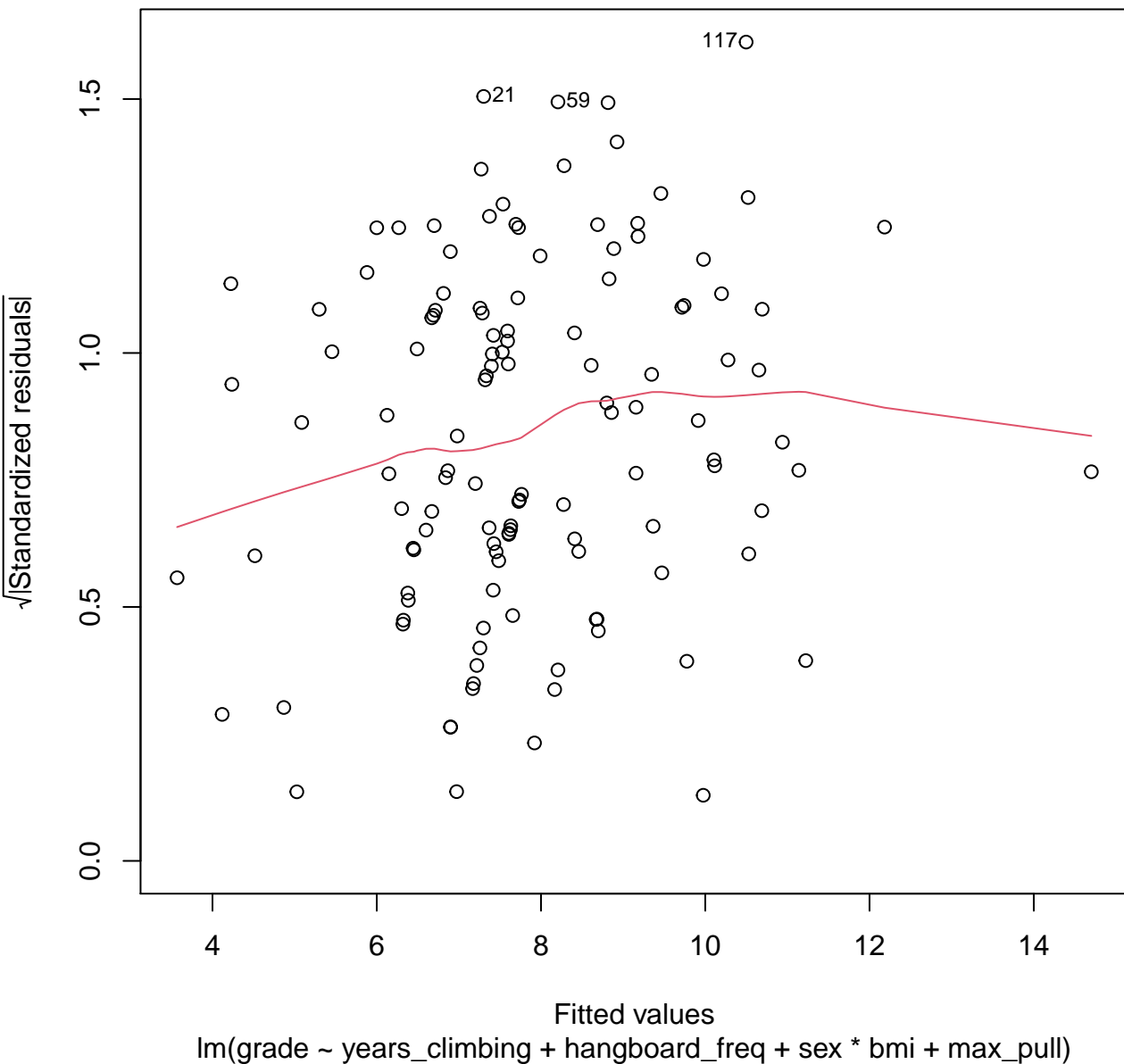
Base Model

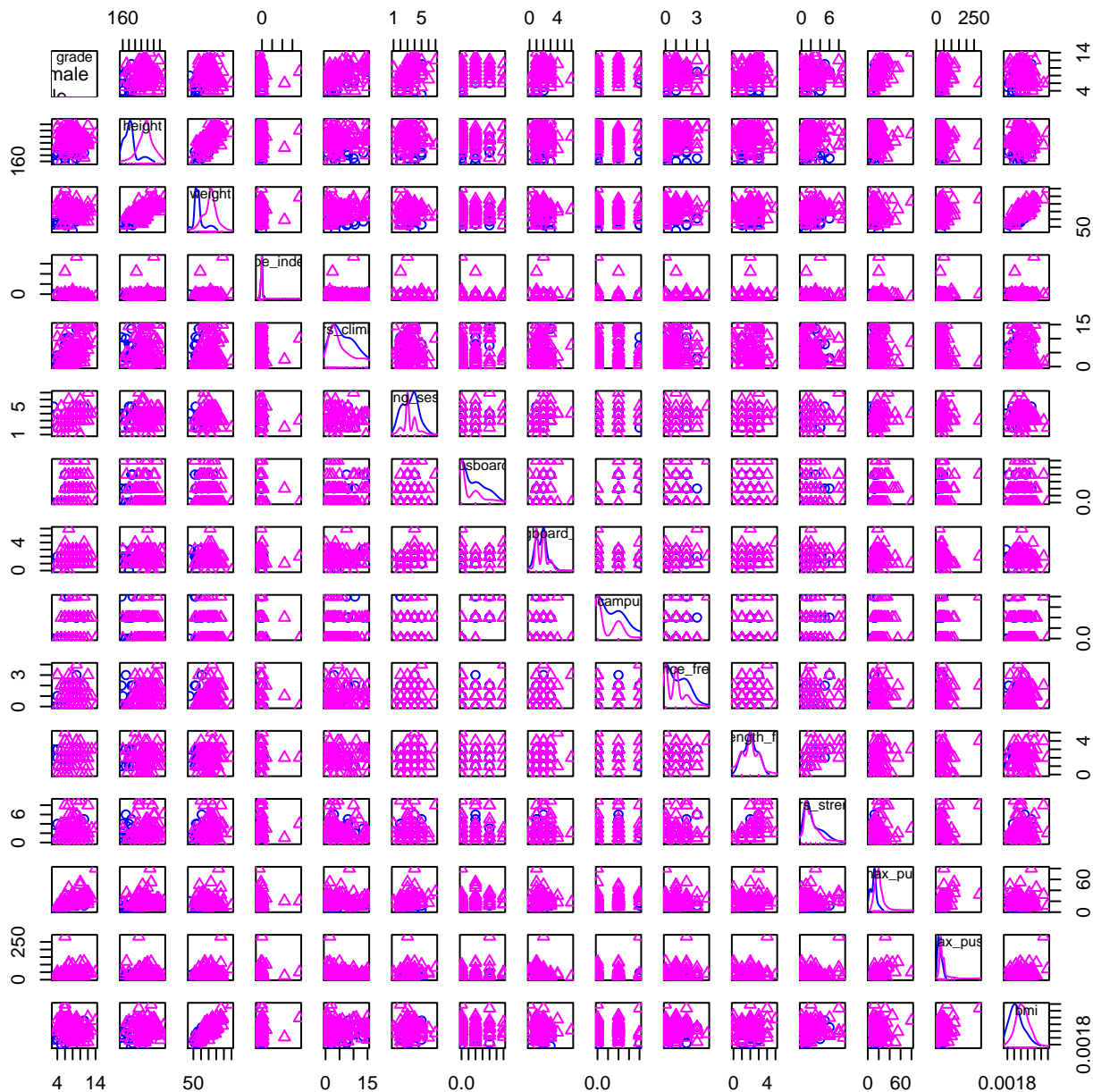
Residuals vs Fitted



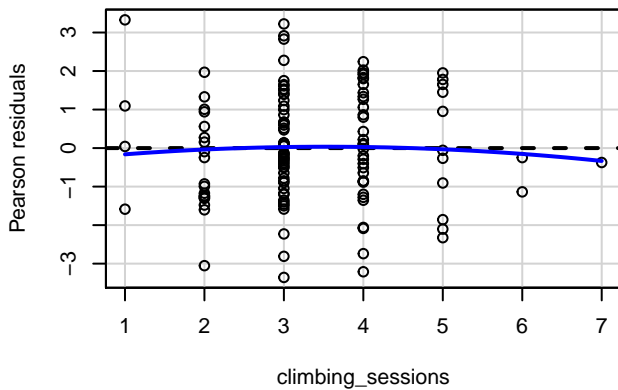
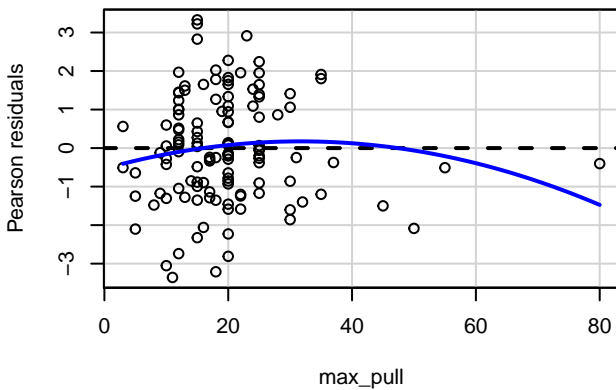
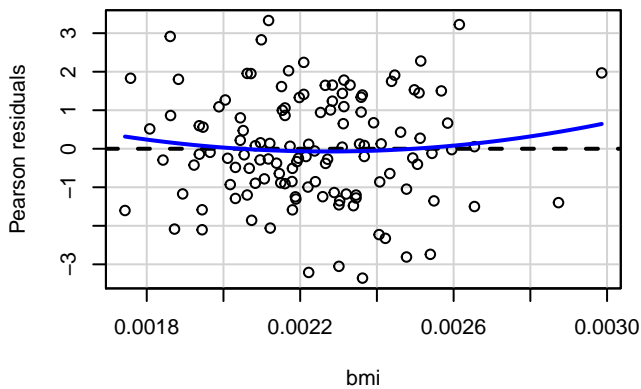
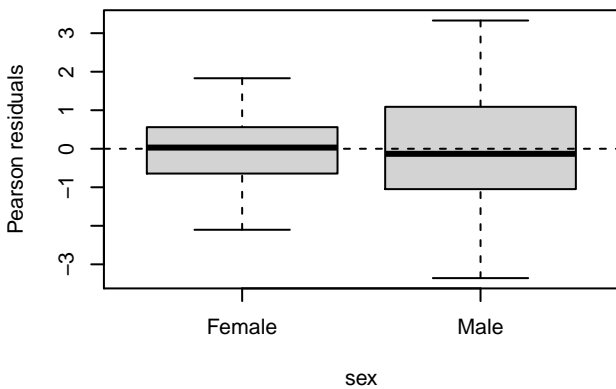
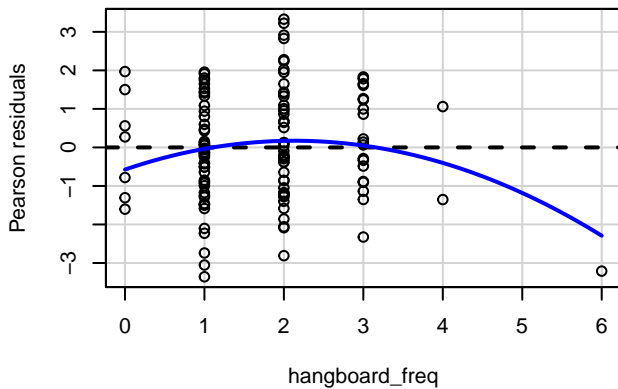
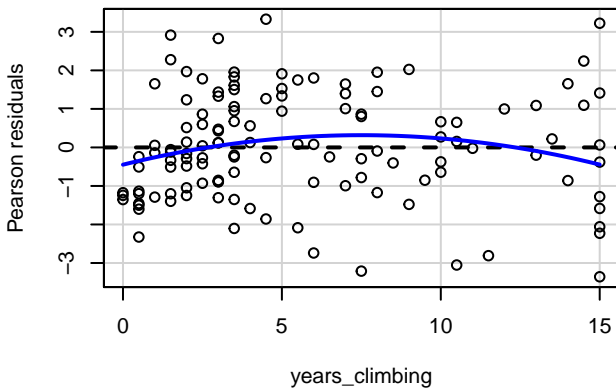
Base Model

Scale-Location



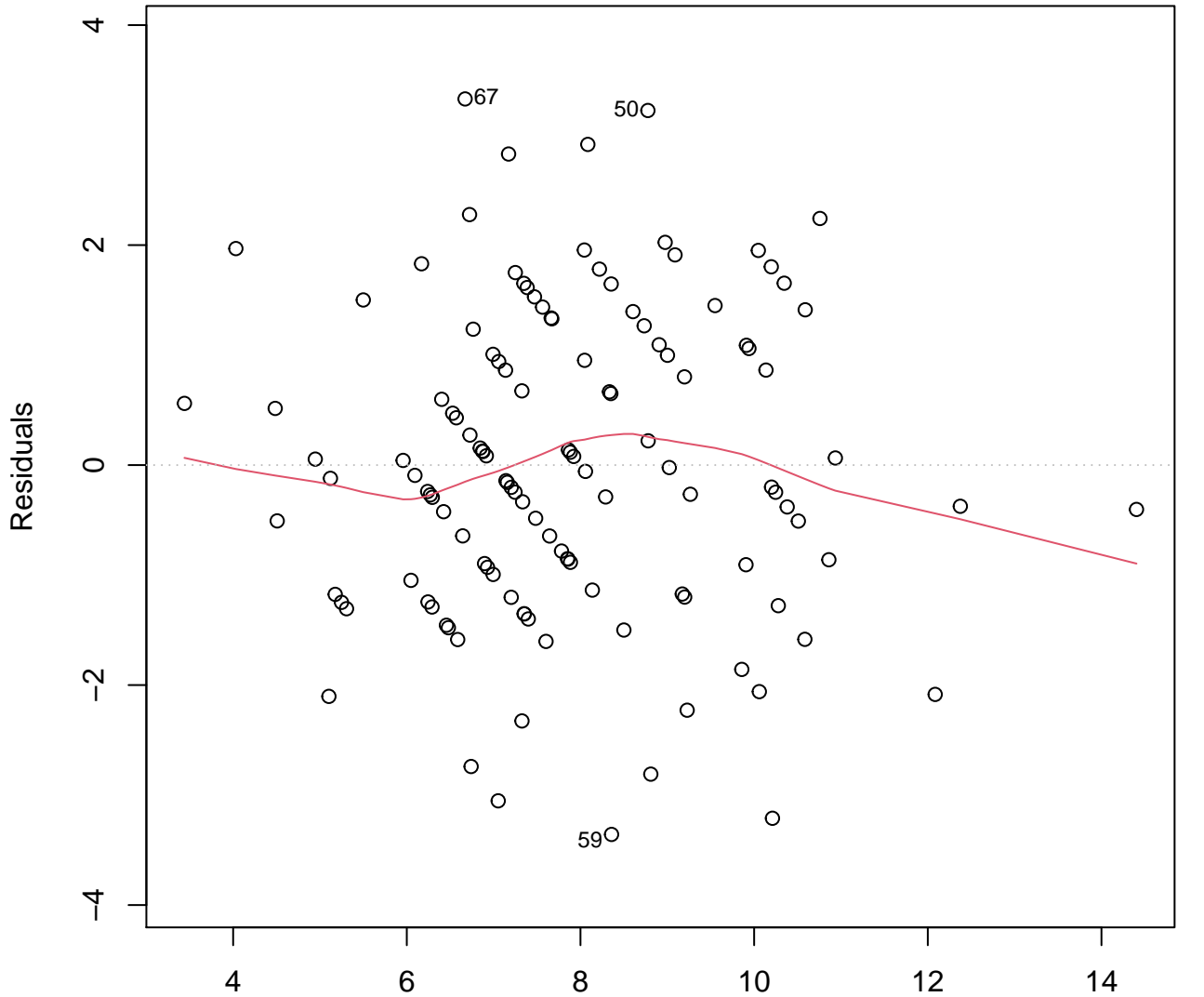


Base Model Plus Climbing Sessions



Base Model Plus Climbing Sessions

Residuals vs Fitted

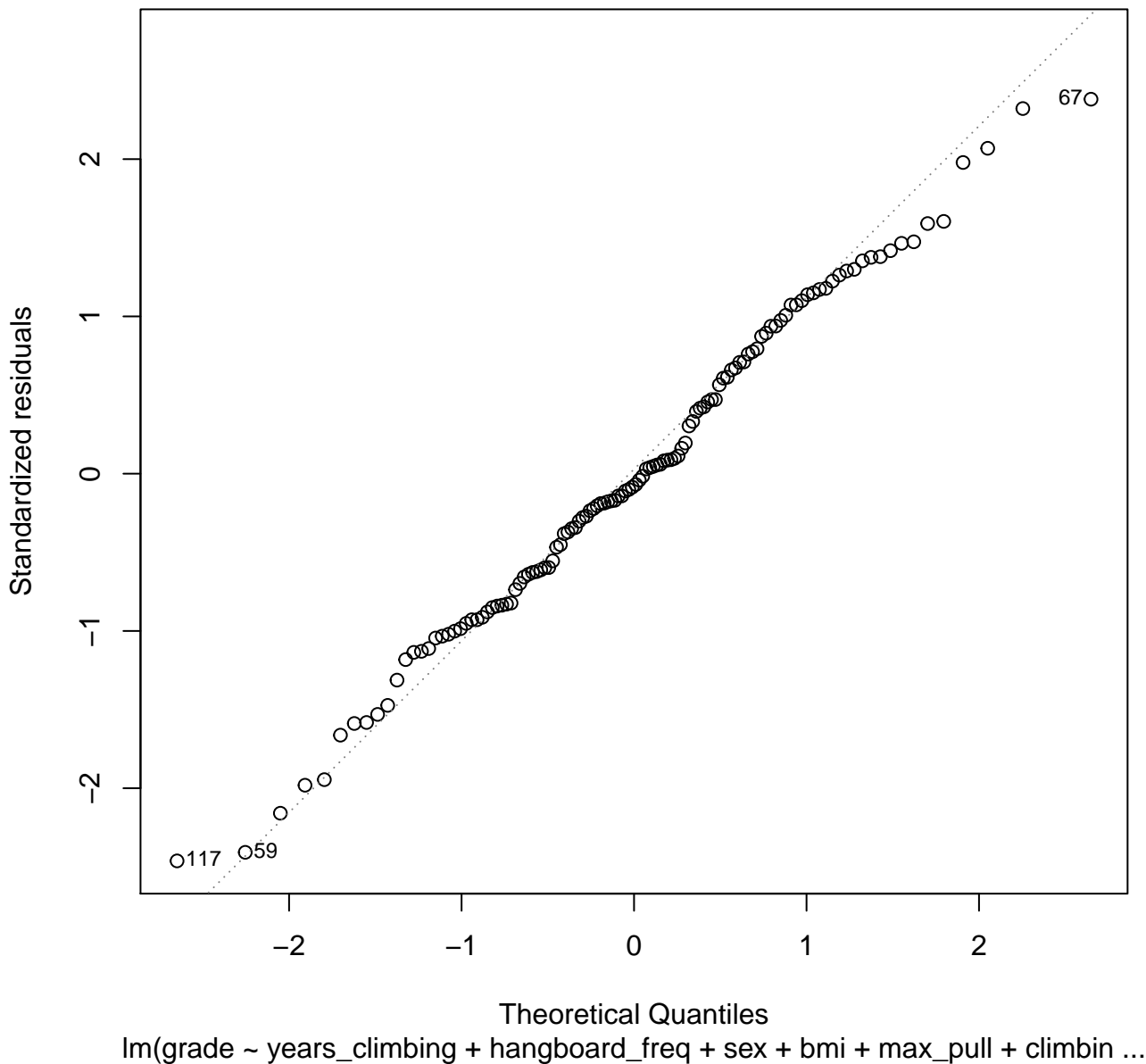


Fitted values

lm(grade ~ years_climbing + hangboard_freq + sex + bmi + max_pull + climbin ...)

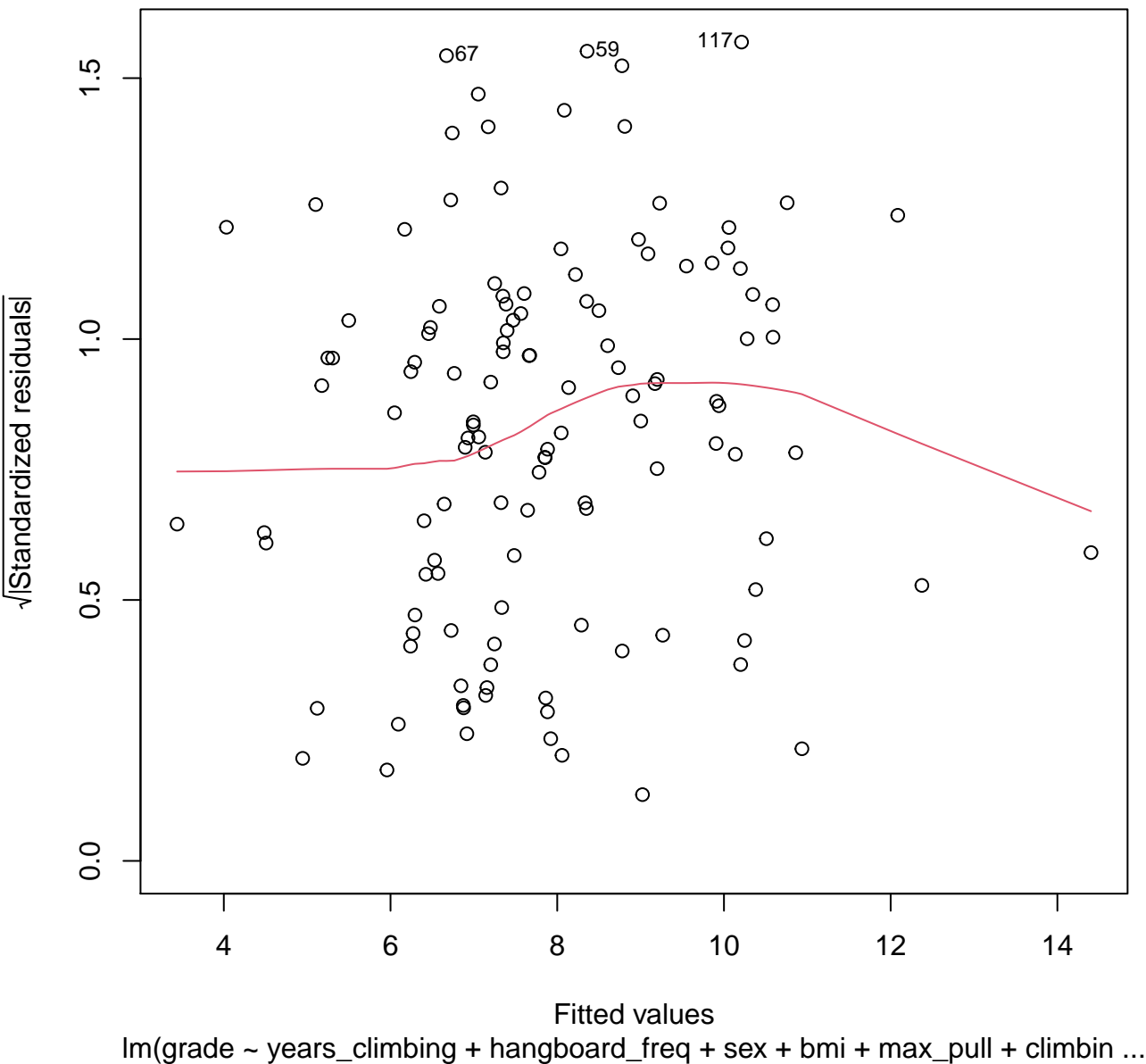
Base Model Plus Climbing Sessions

Normal Q-Q



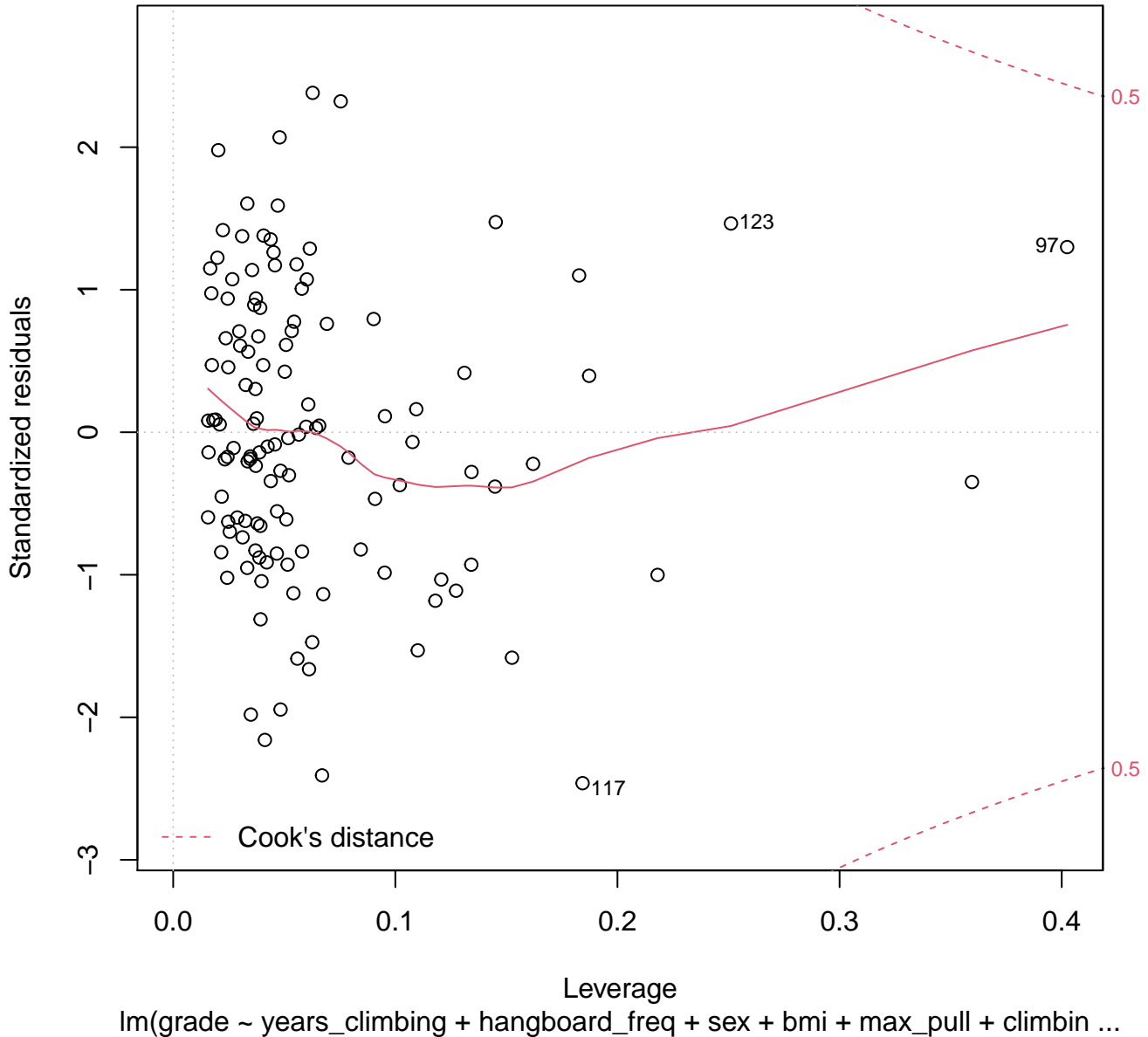
Base Model Plus Climbing Sessions

Scale-Location



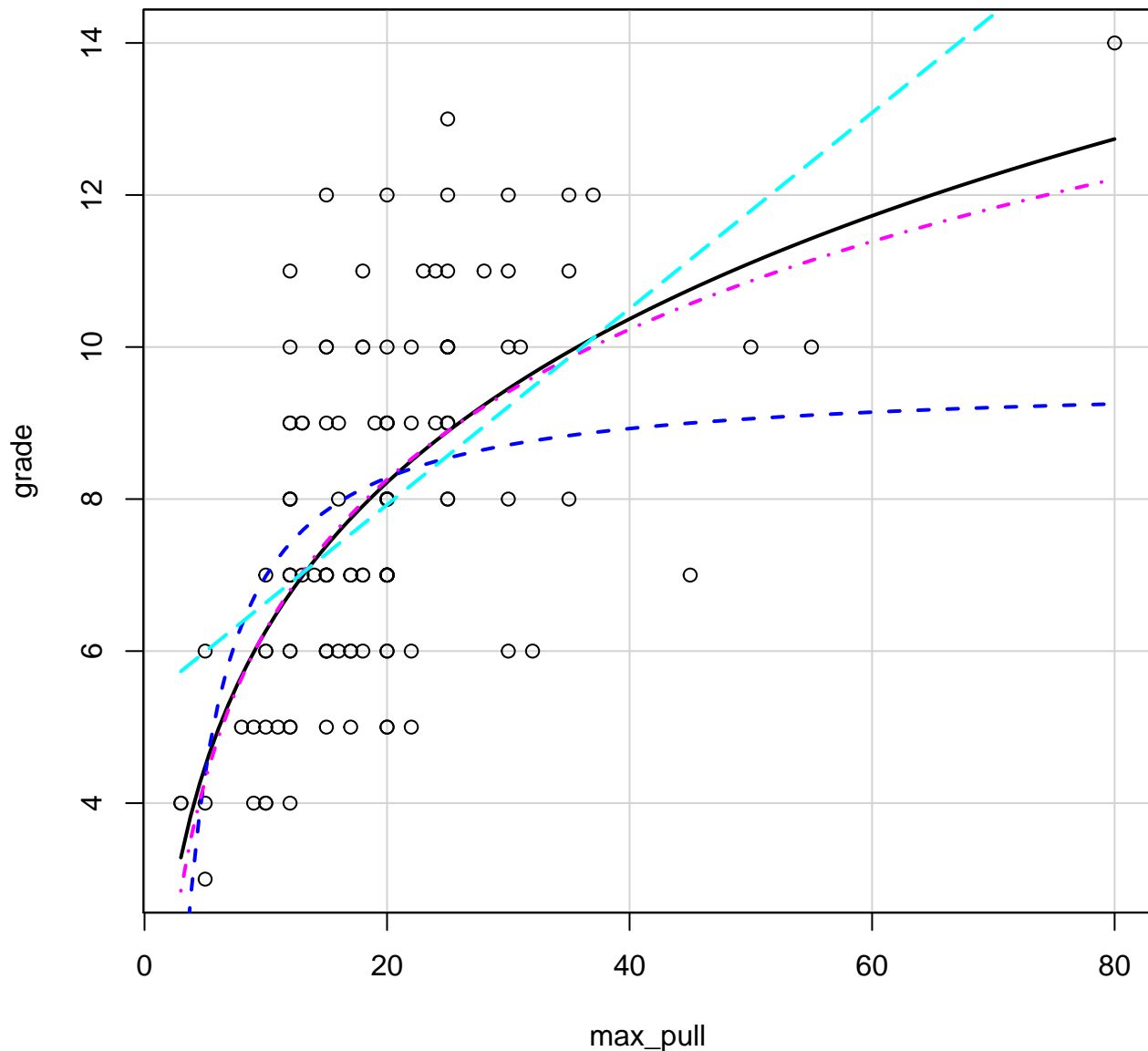
Base Model Plus Climbing Sessions

Residuals vs Leverage



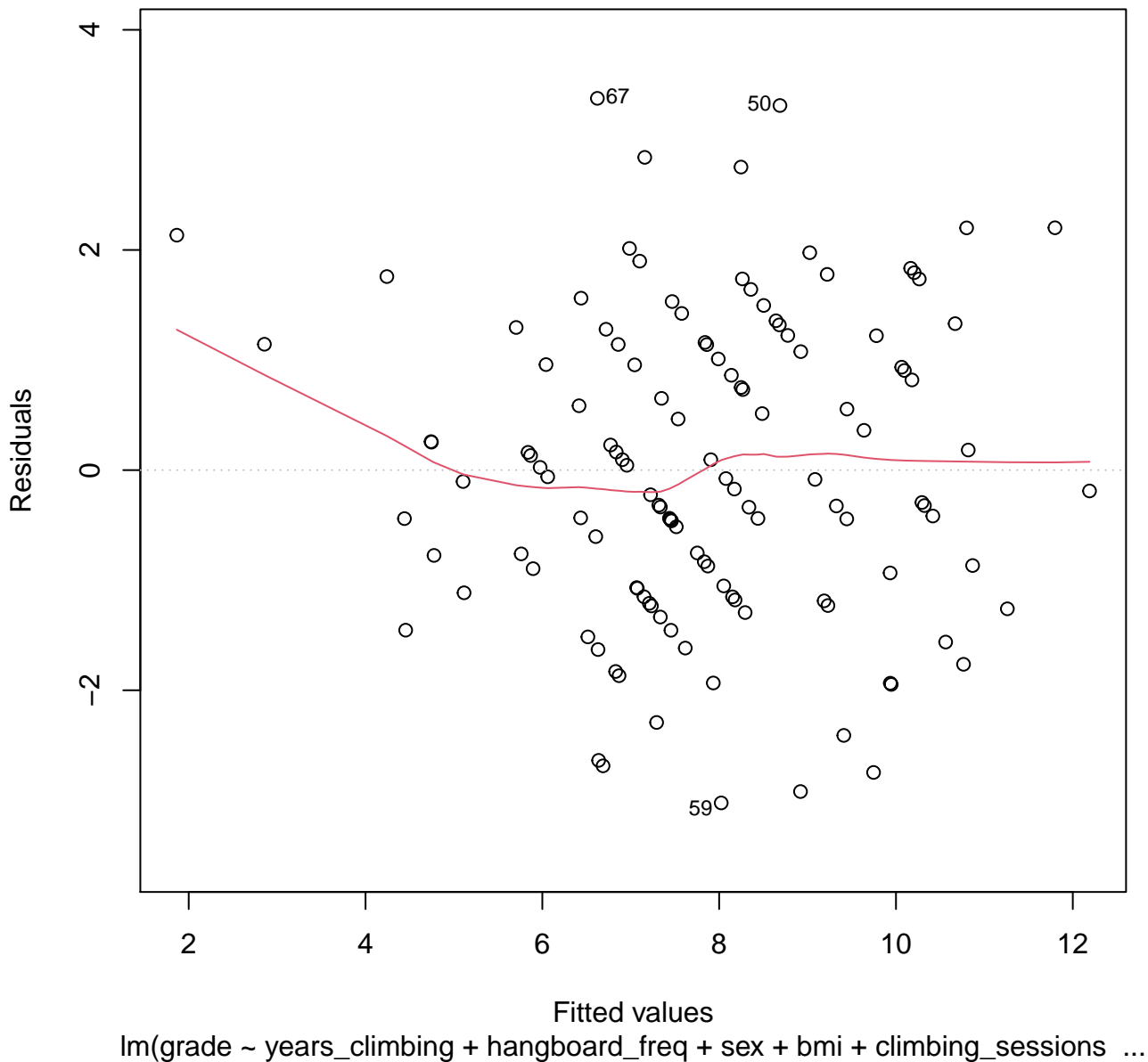
Guide for Max Pull Transformation

$\hat{\lambda}$: 0.14 -1 0 1



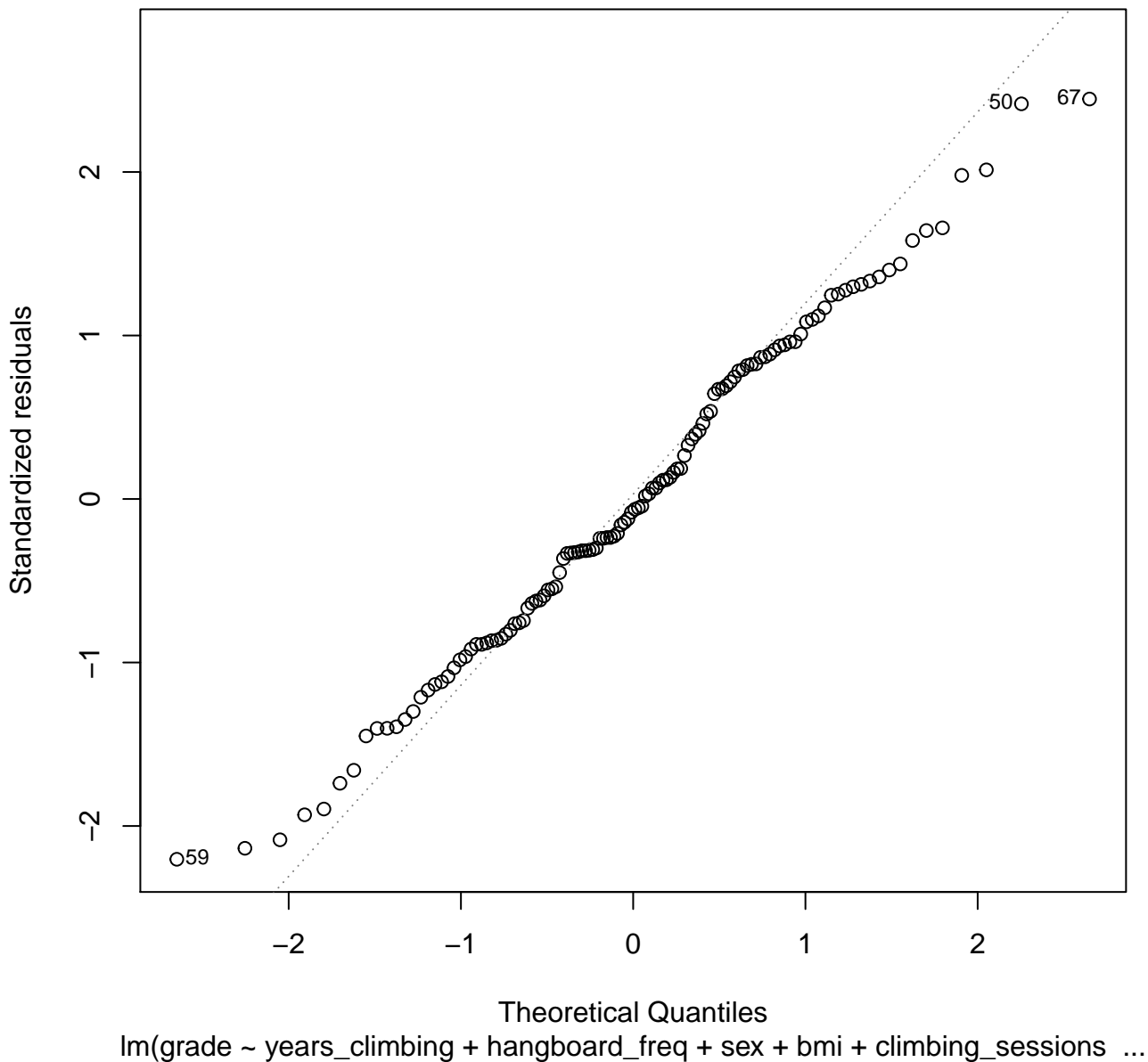
Working Model (Transformation of Max Pull)

Residuals vs Fitted



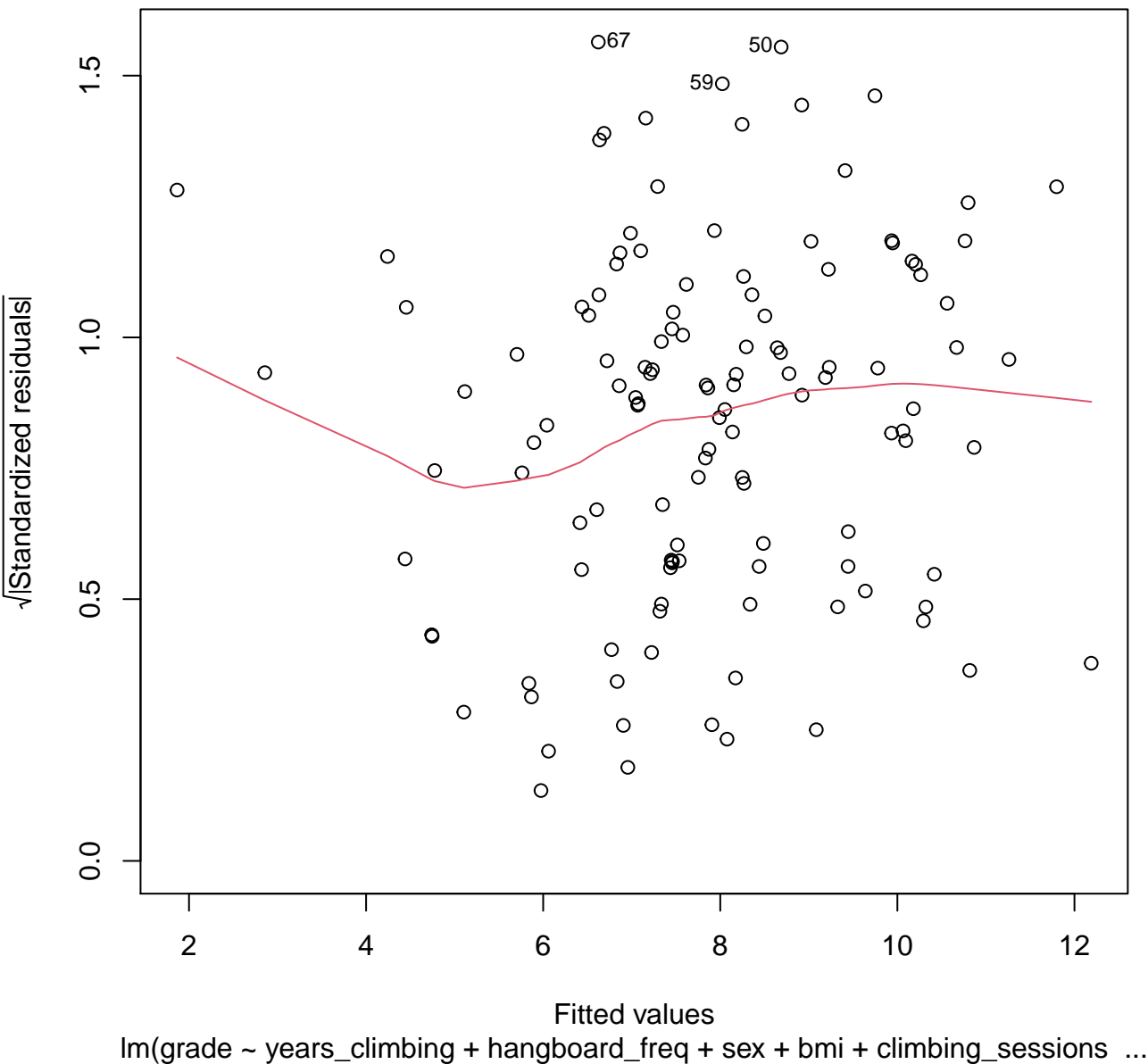
Working Model (Transformation of Max Pull)

Normal Q-Q



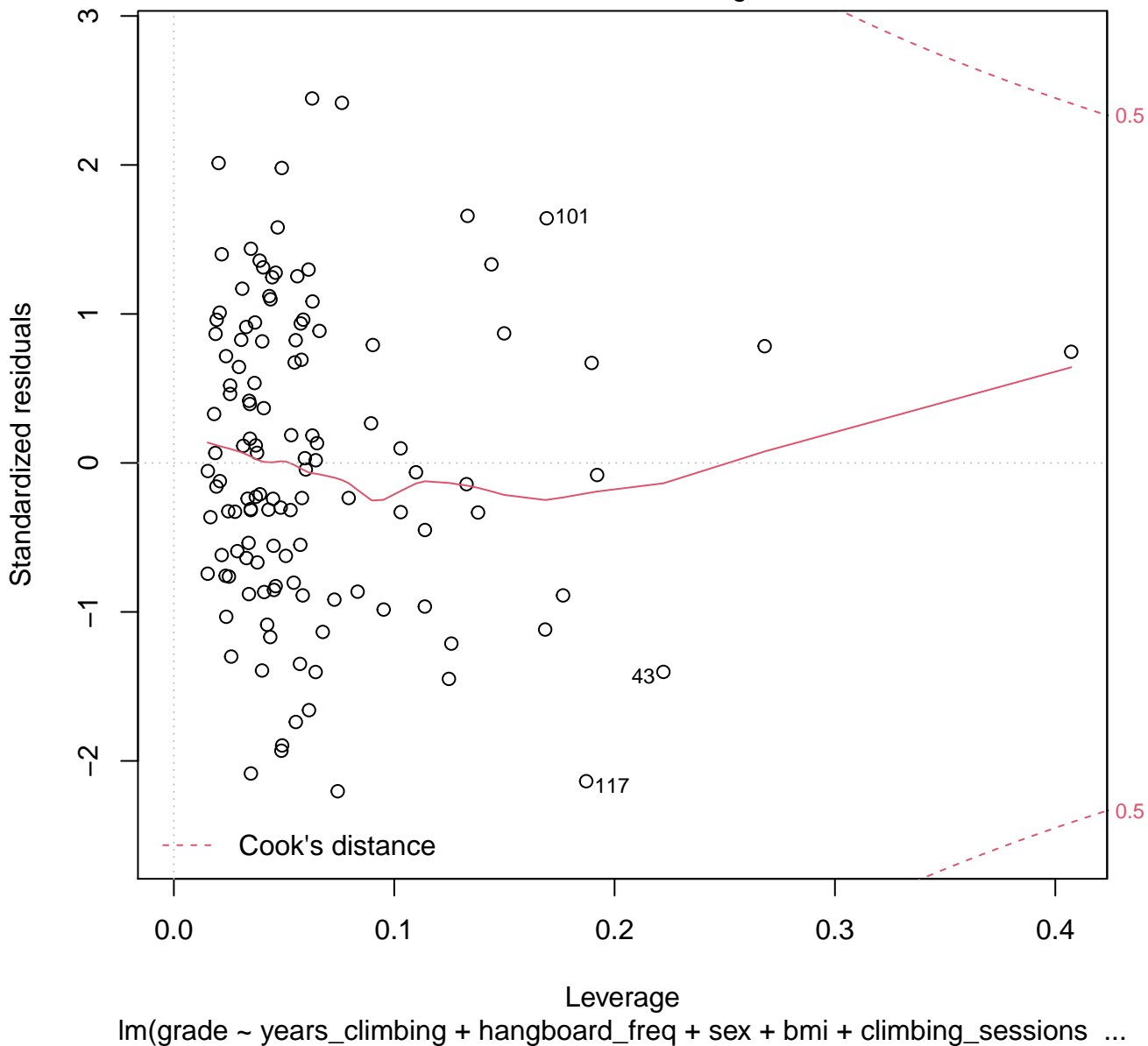
Working Model (Transformation of Max Pull)

Scale-Location

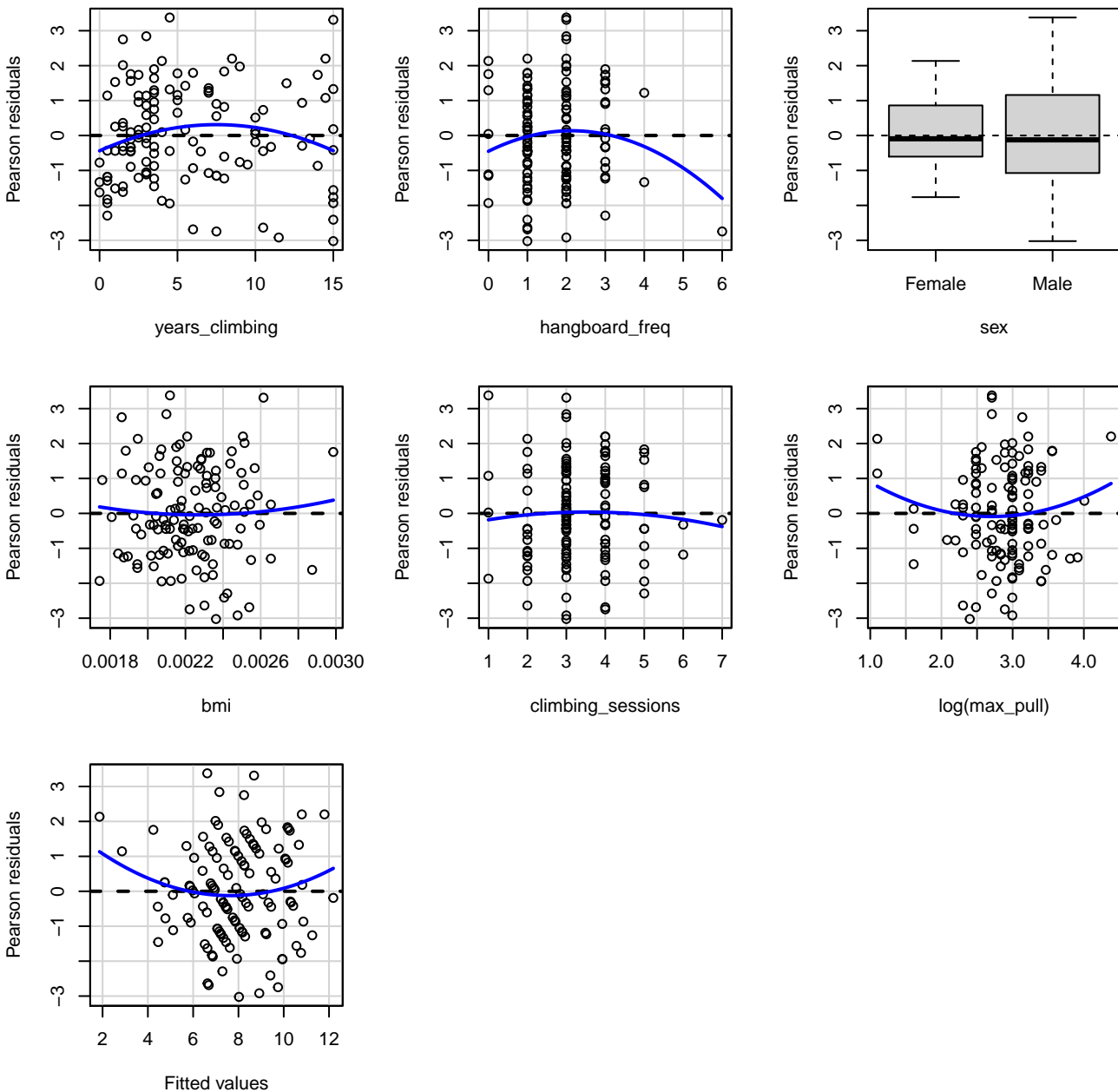


Working Model (Transformation of Max Pull)

Residuals vs Leverage

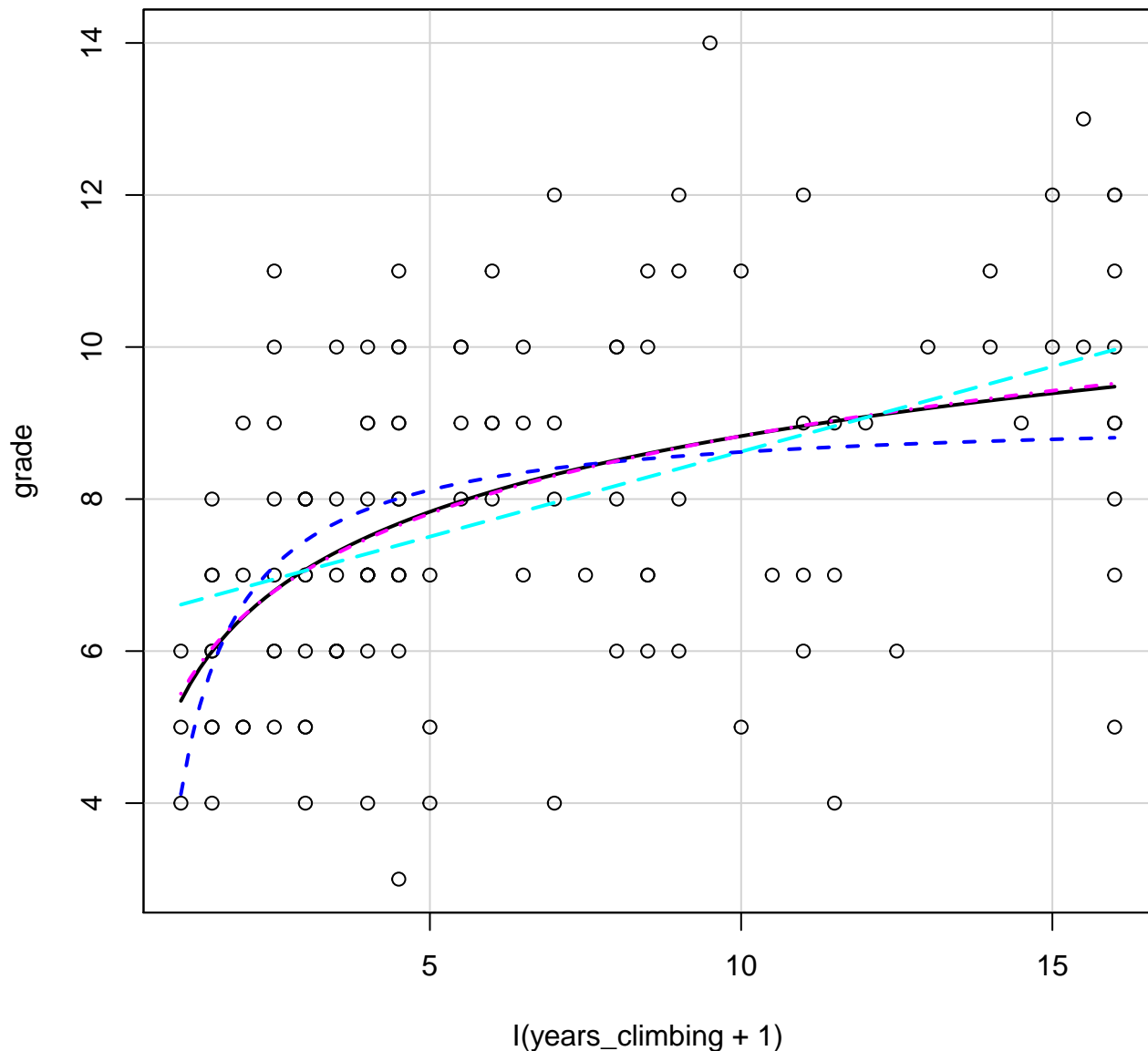


Working Model (Transformation of Max Pull)

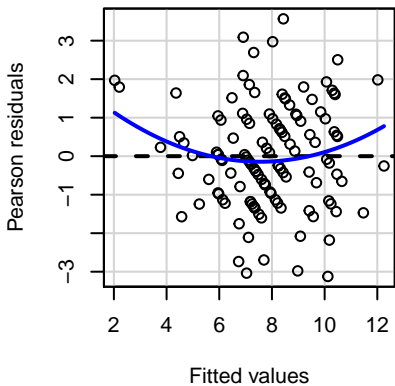
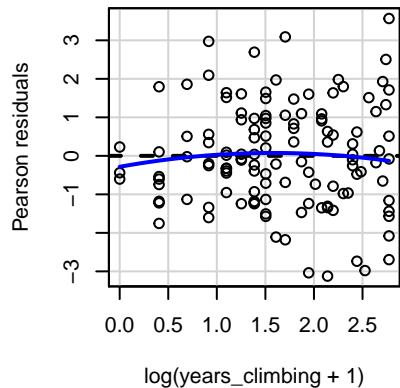
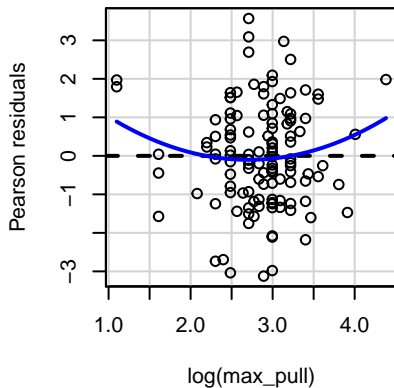
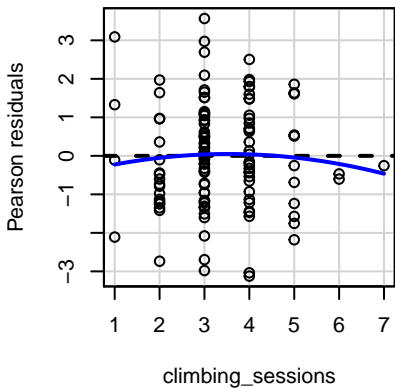
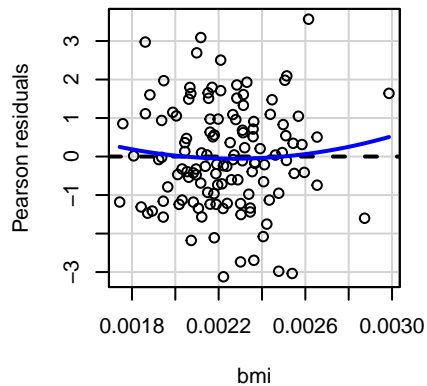
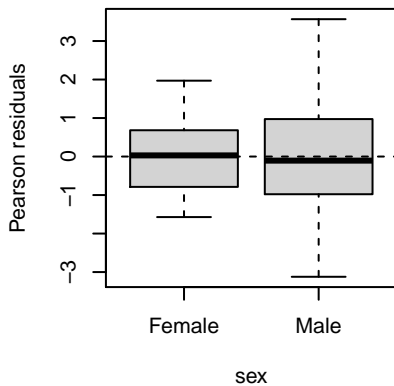
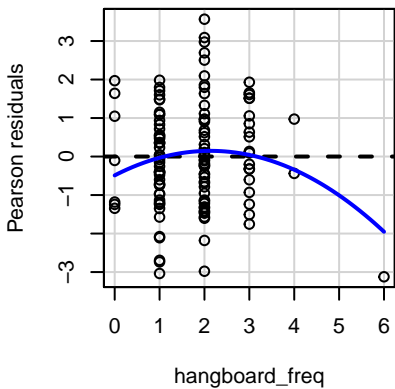


Guide for Years Climbing Transformation

$\hat{\lambda}$: — -0.06 - - -1 - · - 0 - - - 1

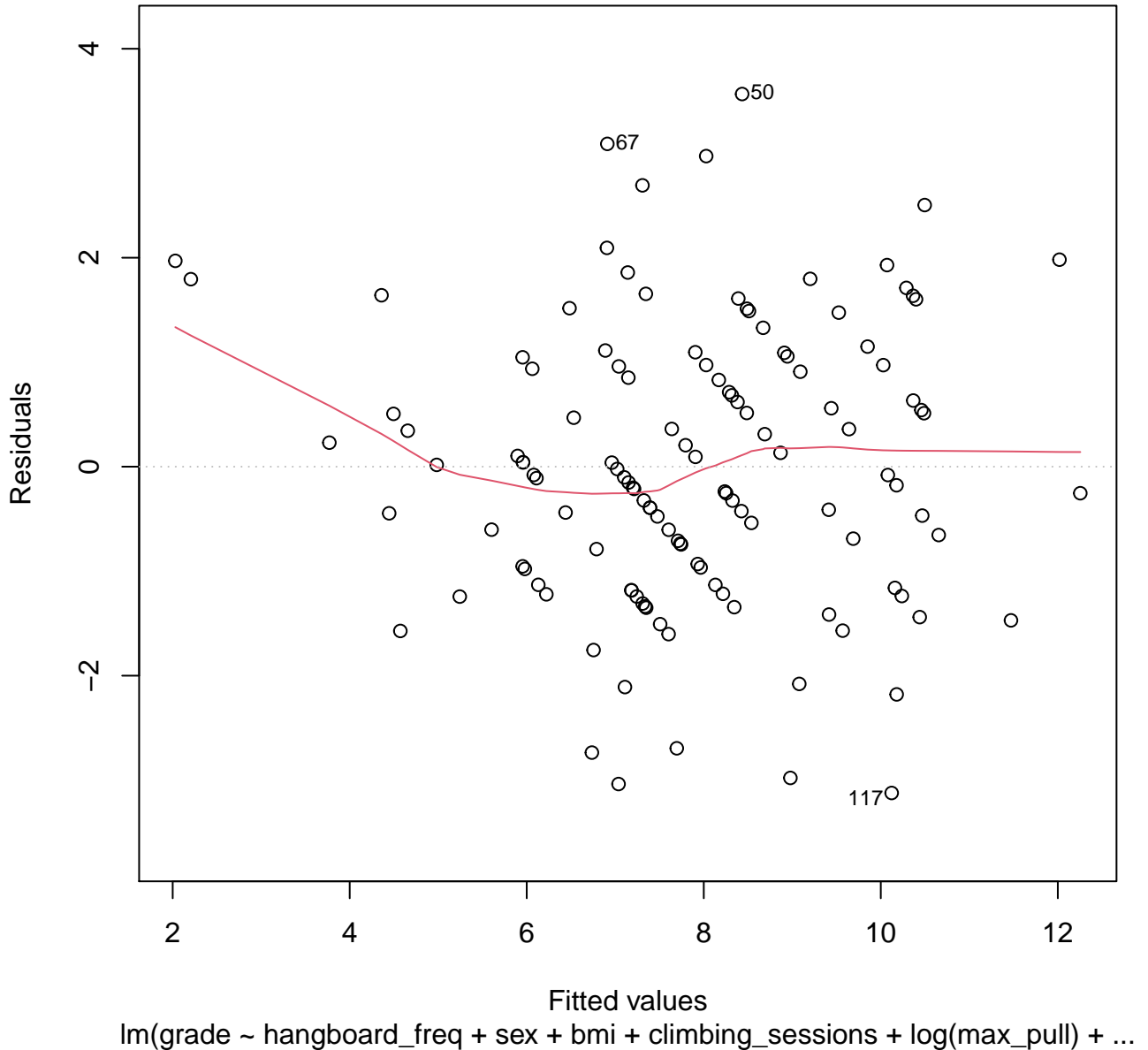


Working Model (Transformation of Years Climbing)



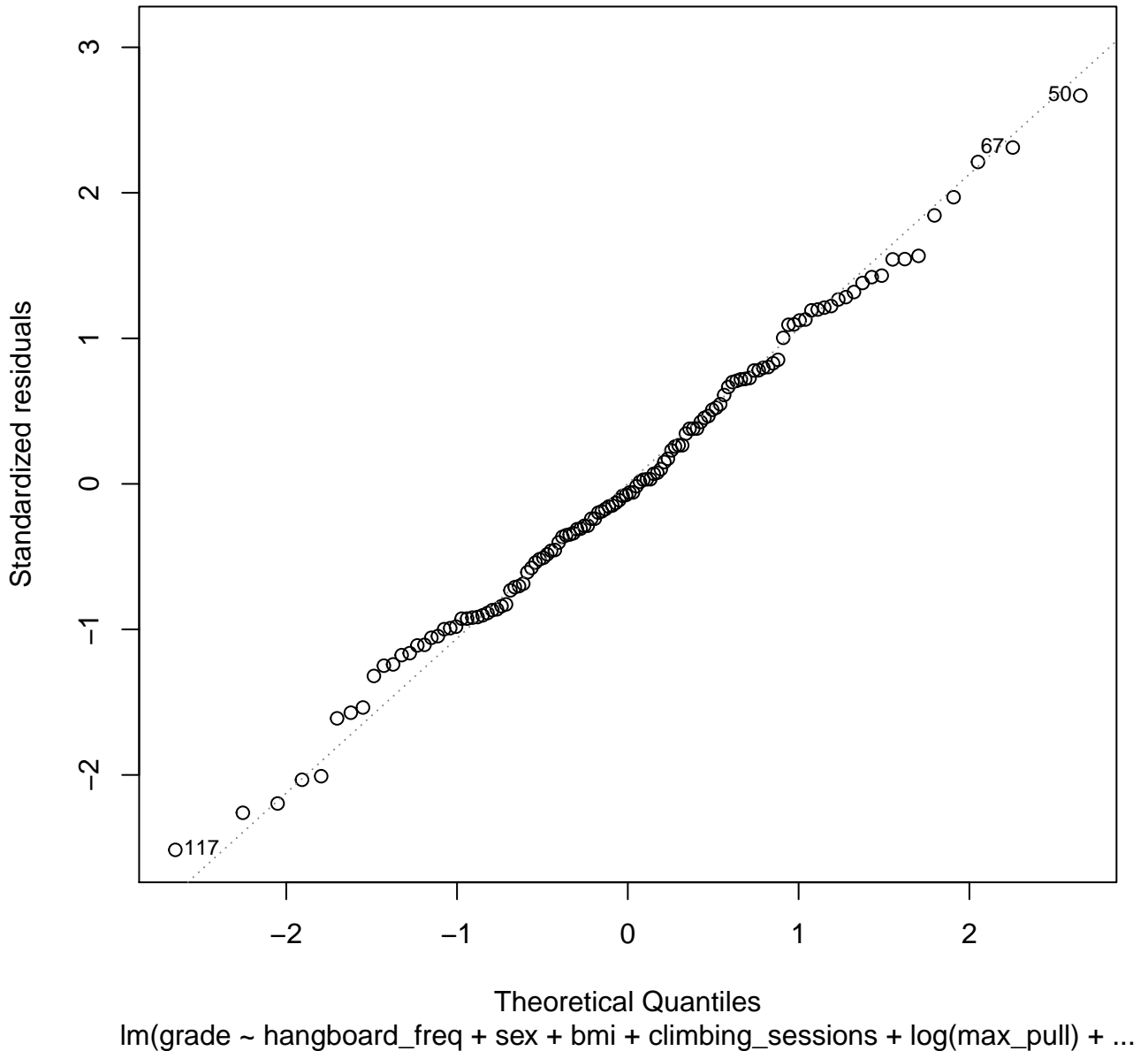
Transformed Model

Residuals vs Fitted



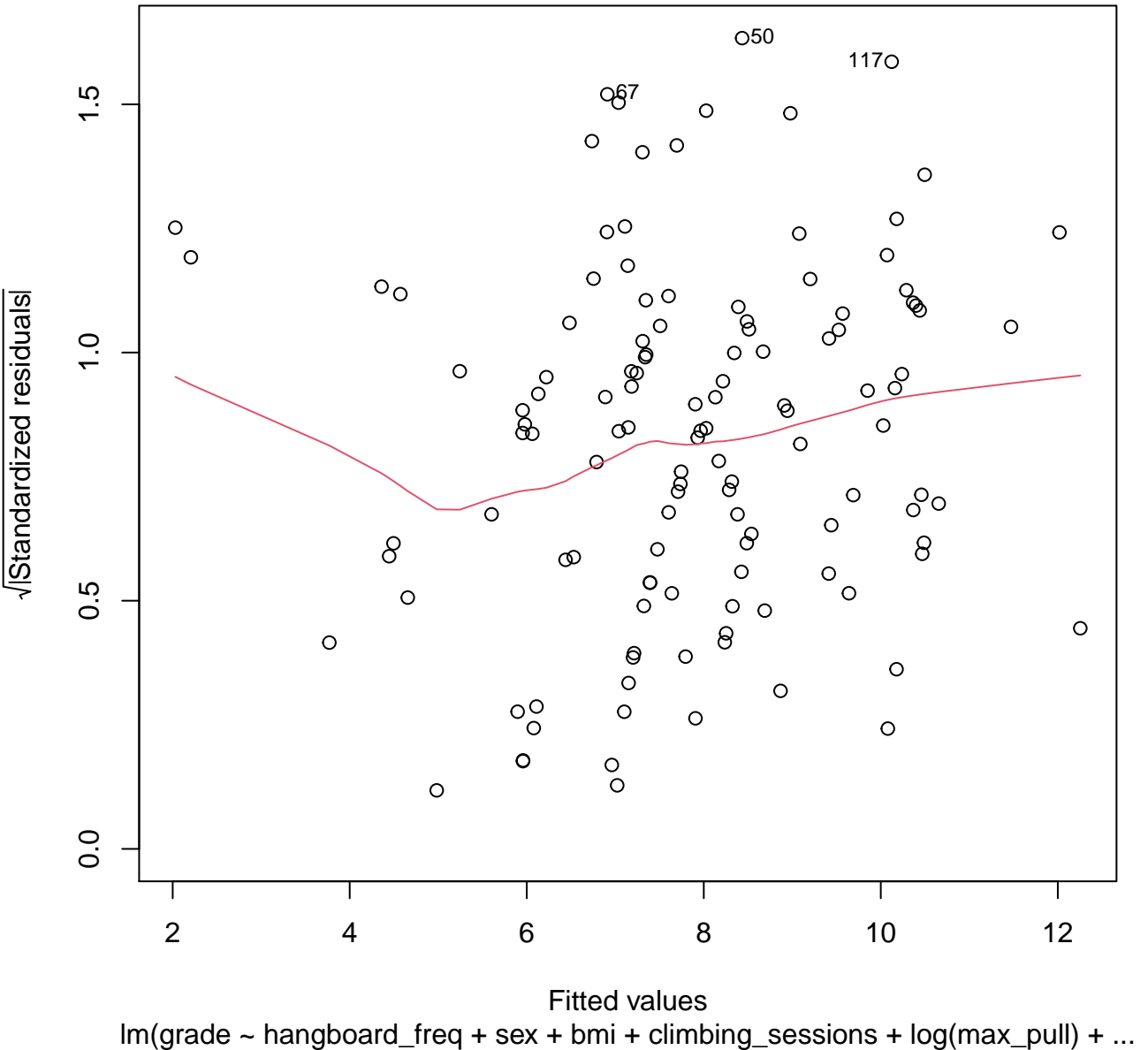
Transformed Model

Normal Q-Q



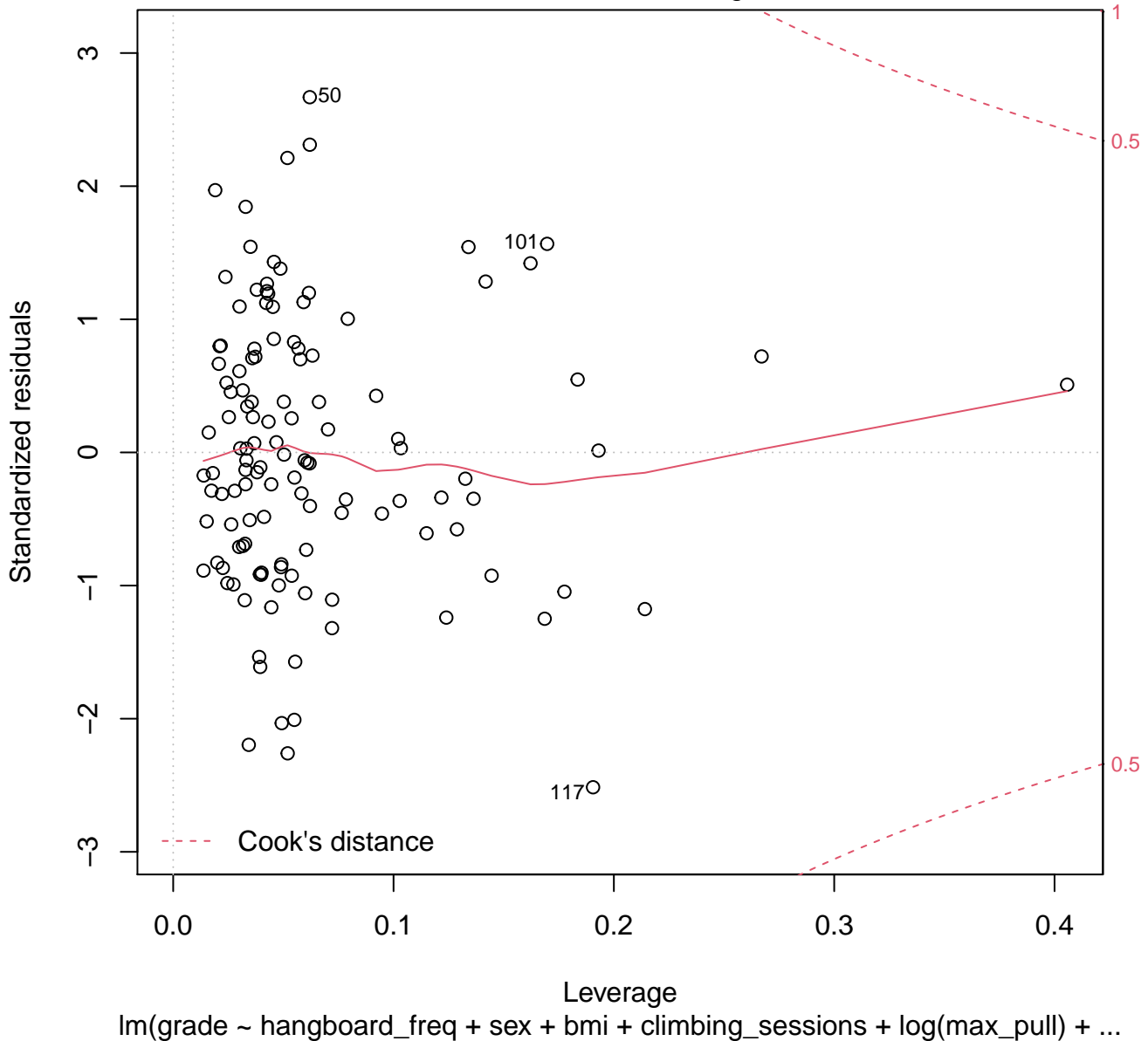
Transformed Model

Scale-Location



Transformed Model

Residuals vs Leverage



Transformed Model

