Whiteside dataset

Regression diagnostic Gas ~ Temp

Residuals versus Fitted

Scale location
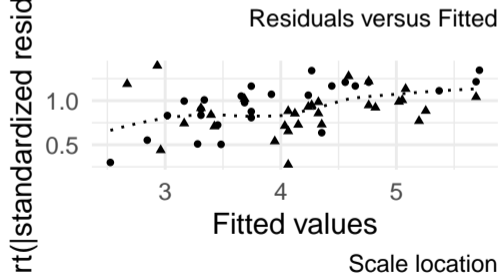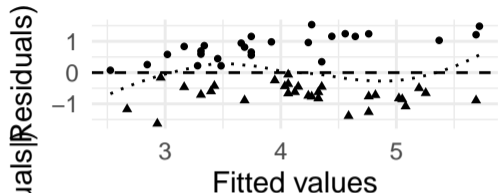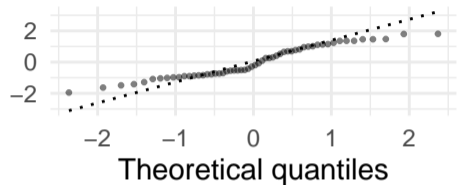
Residuals qqplot

Insul
- ● Before
- ▲ After

The fact that the sign of residuals depend on Insul shows that our modeling is too naive.
The qqplot suggests that the residuals are not collected from Gaussian homoschedastic noise.