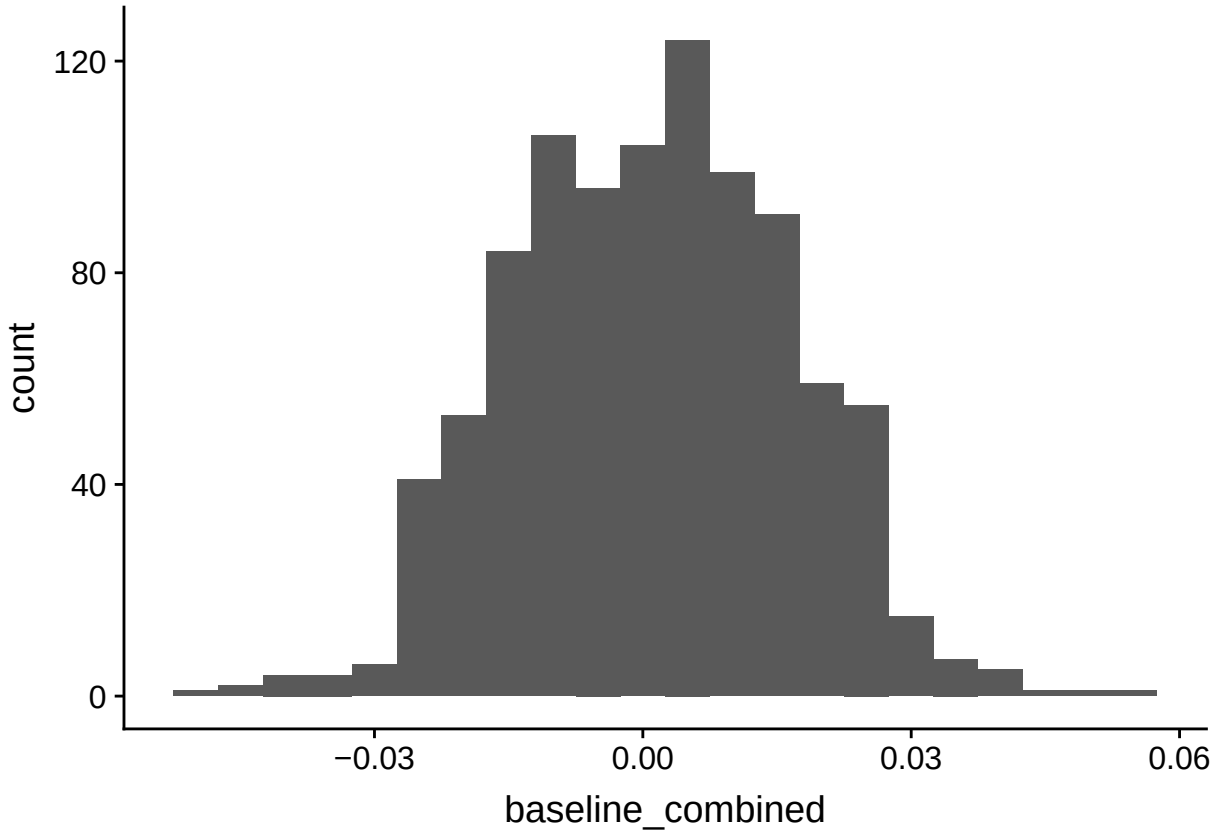
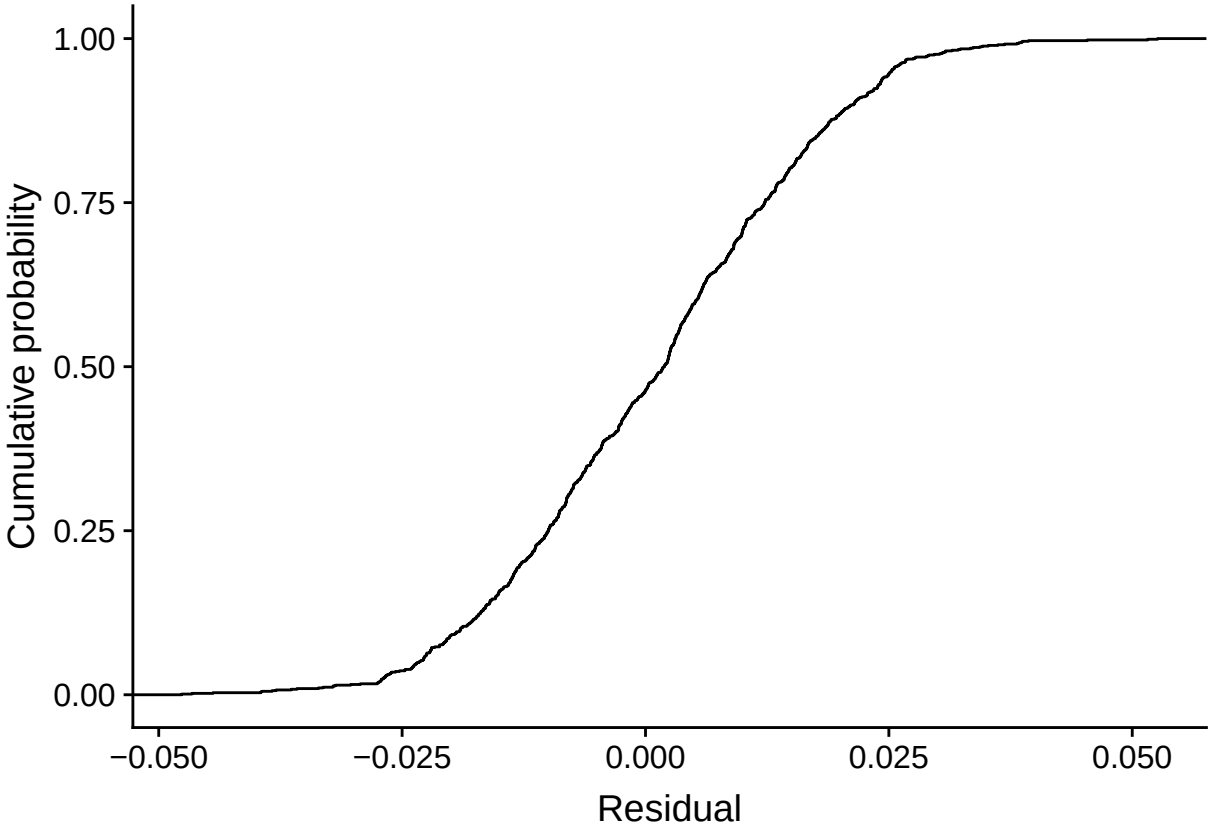
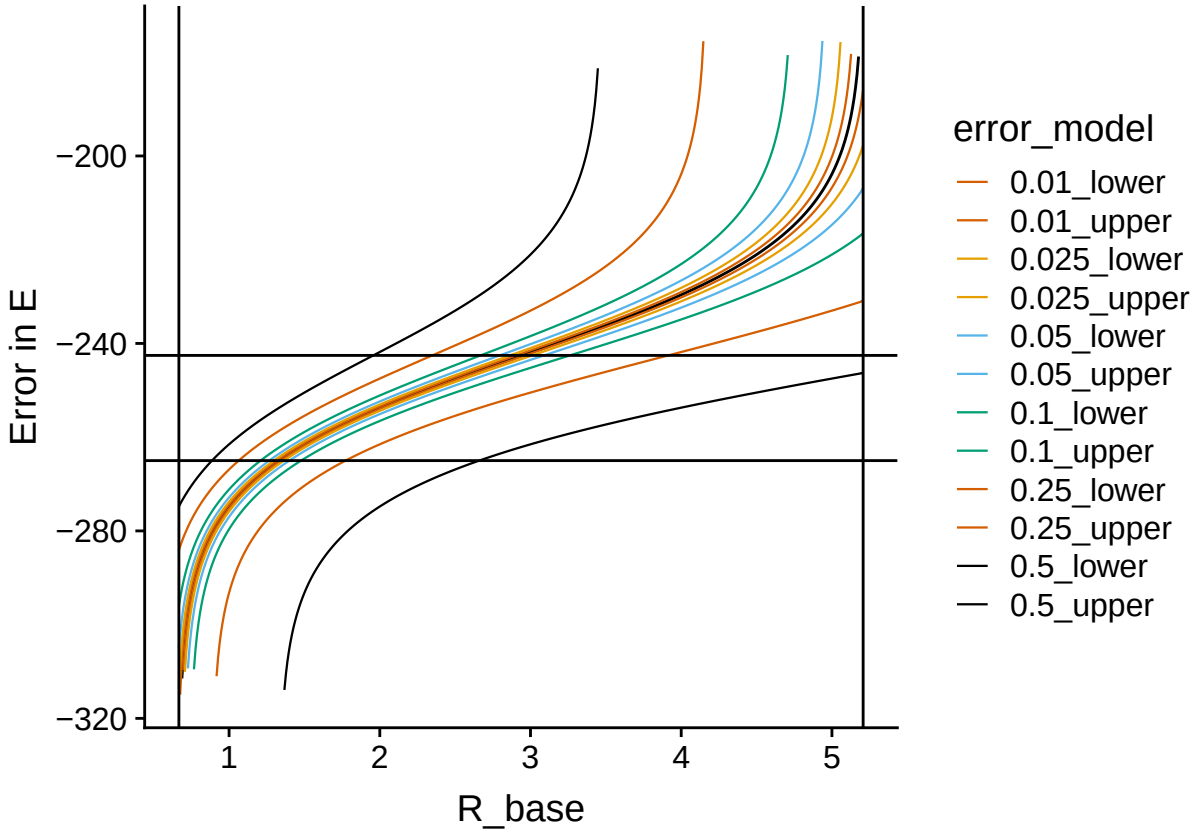
Distribution of errors





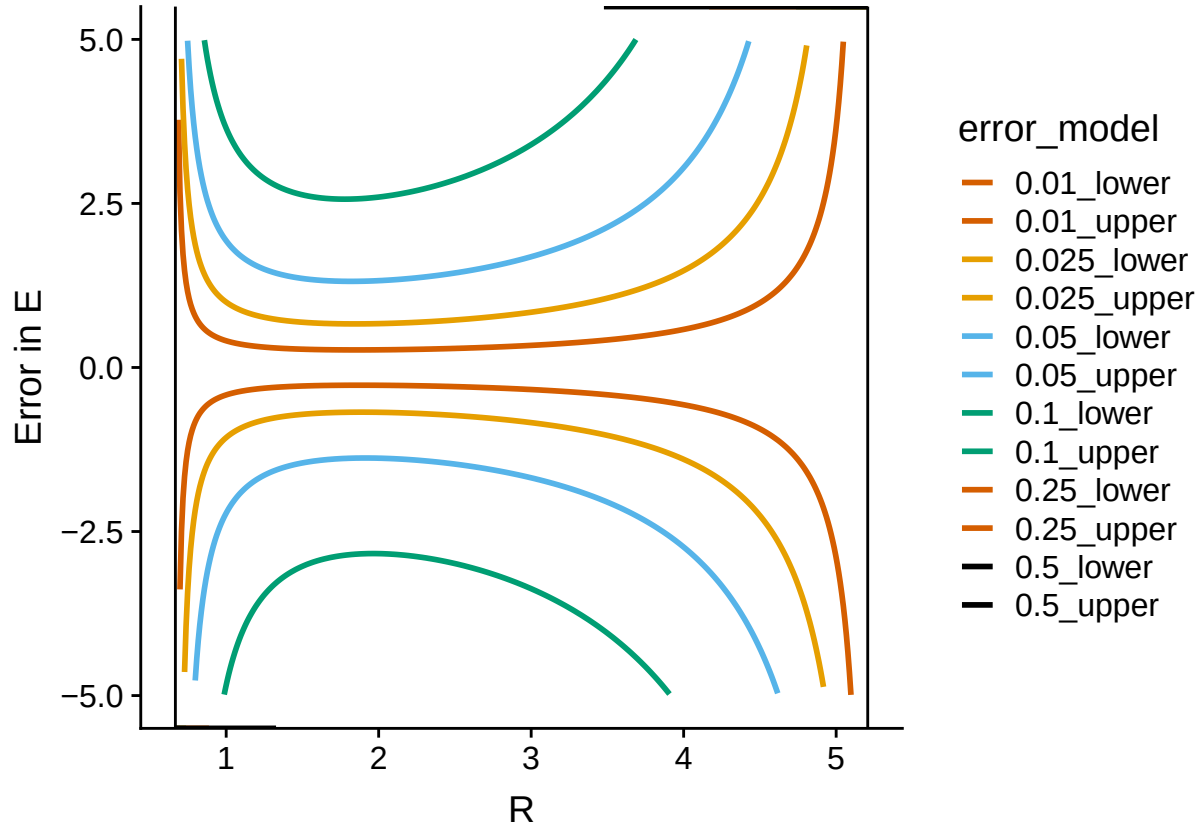
```
## [1] "95% of values fall between -0.027 and 0.029"
```

E observed vs R at different error levels



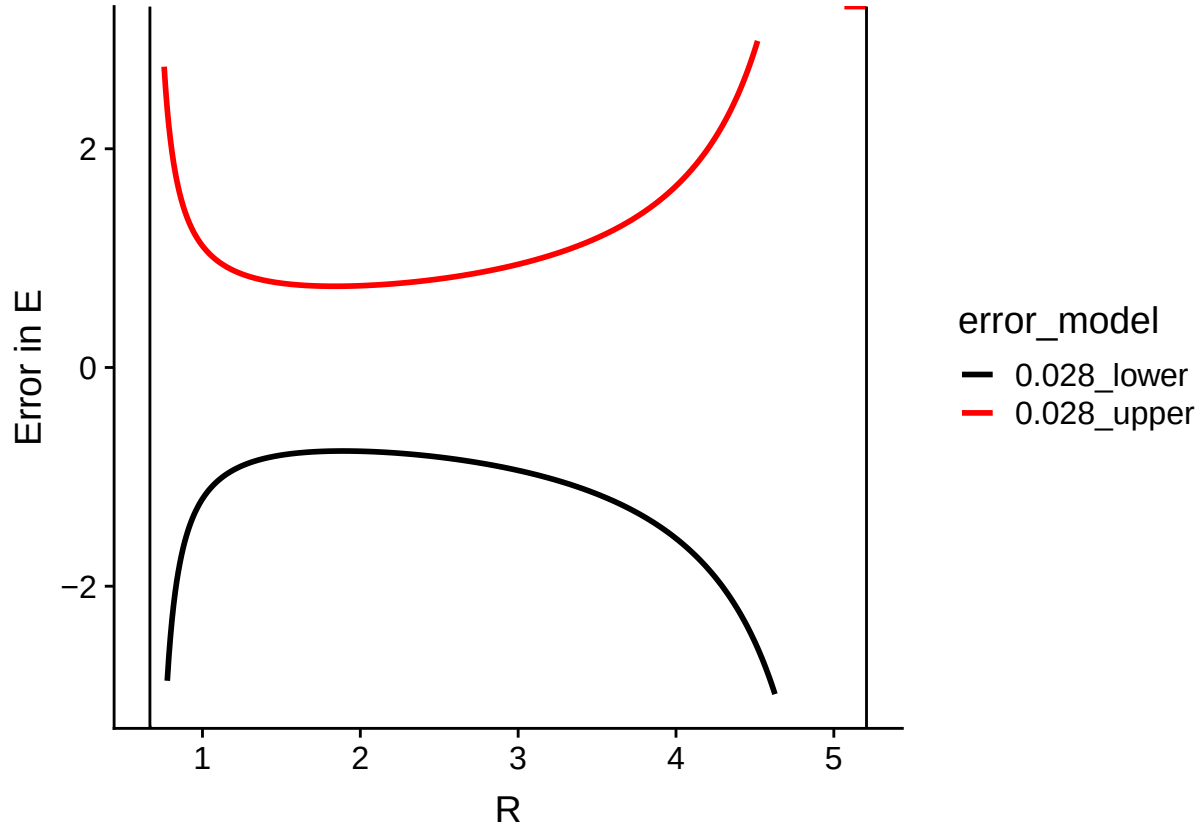

```
## Warning: Removed 7836 rows containing missing values (geom_hline).
```

```
## Warning: Removed 7836 rows containing missing values (geom_hline).
```



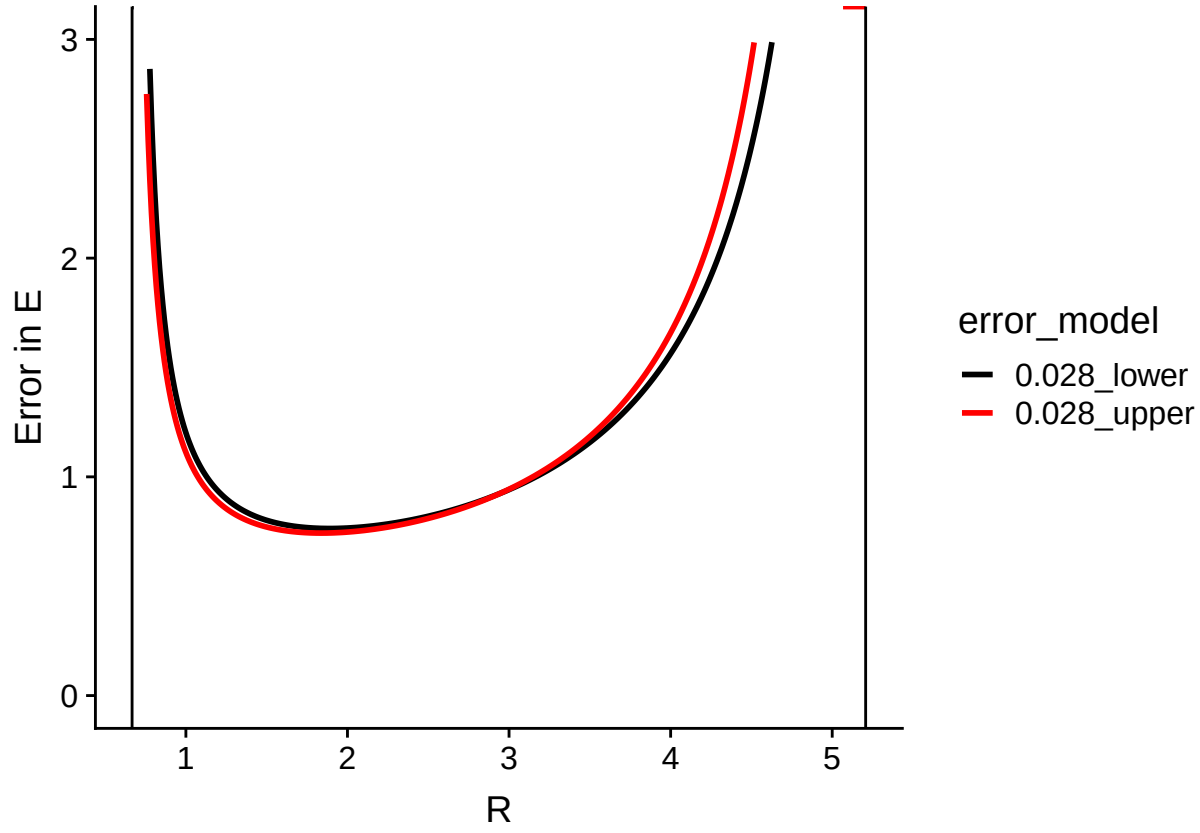

```
## Warning: Removed 1306 rows containing missing values (geom_hline).
```

```
## Warning: Removed 1306 rows containing missing values (geom_hline).
```

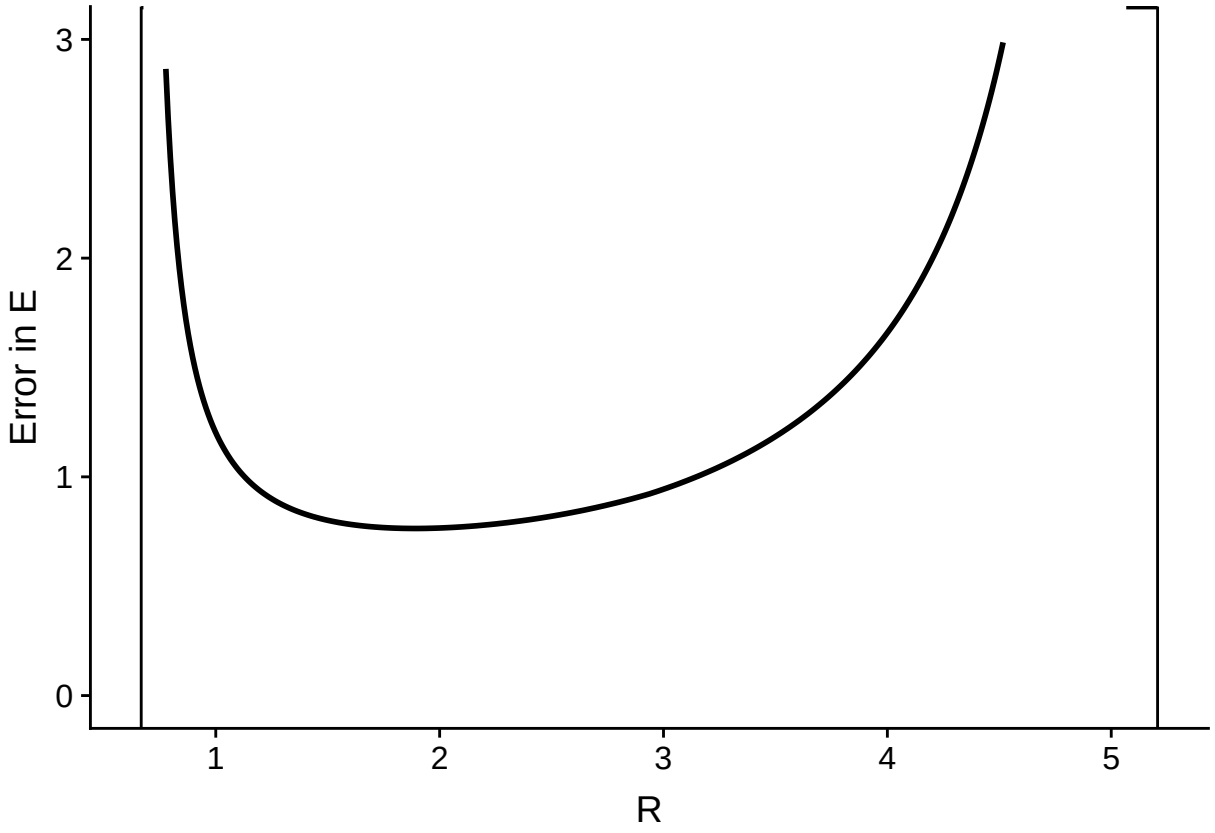



```
## Warning: Removed 1306 rows containing missing values (geom_hline).
```

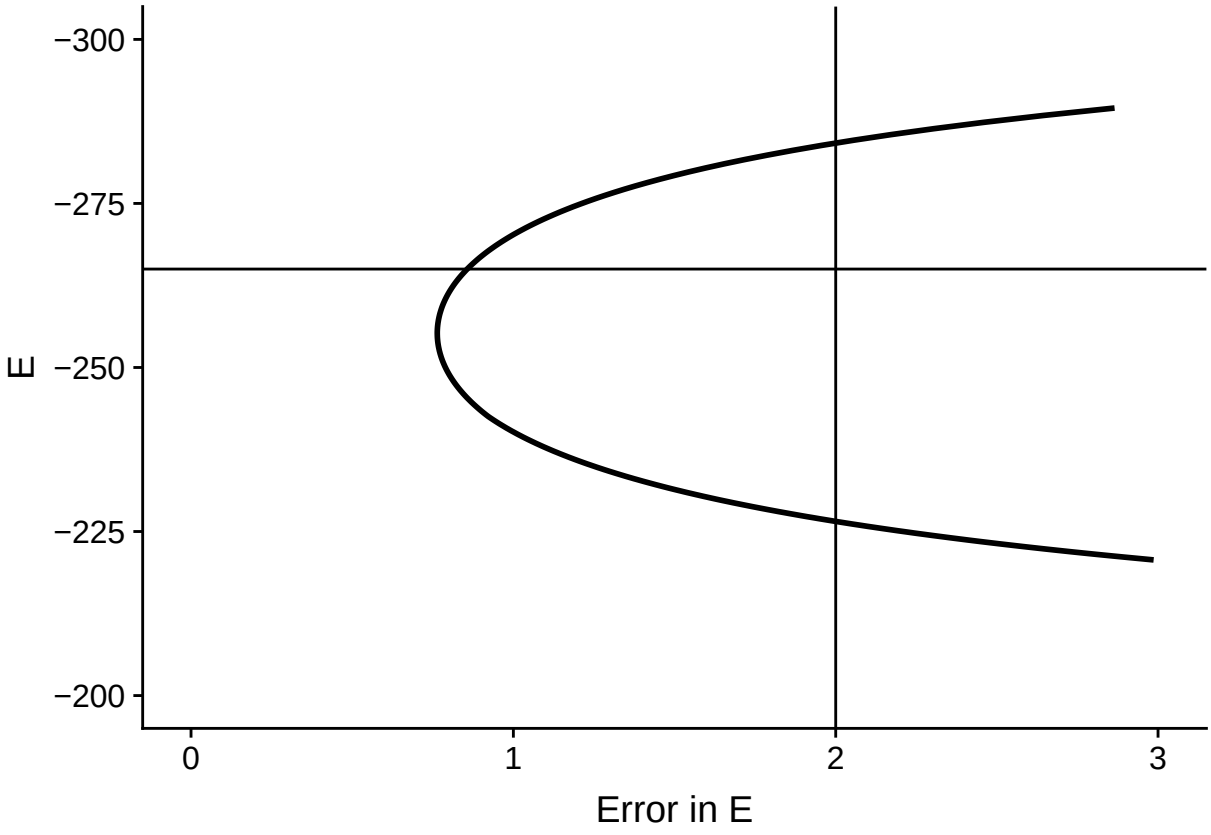
```
## Warning: Removed 1306 rows containing missing values (geom_hline).
```

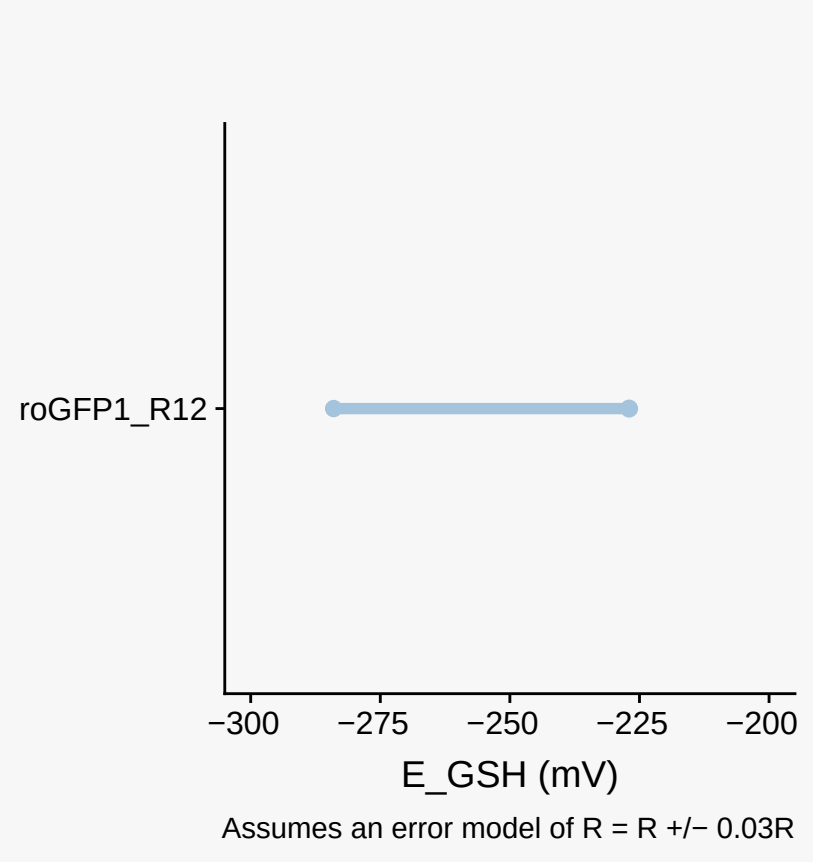



```
## Warning: Removed 653 rows containing missing values (geom_hline).
## Warning: Removed 653 rows containing missing values (geom_hline).
```


Error in E
3
2
1
0
1
2
3
4
5
R

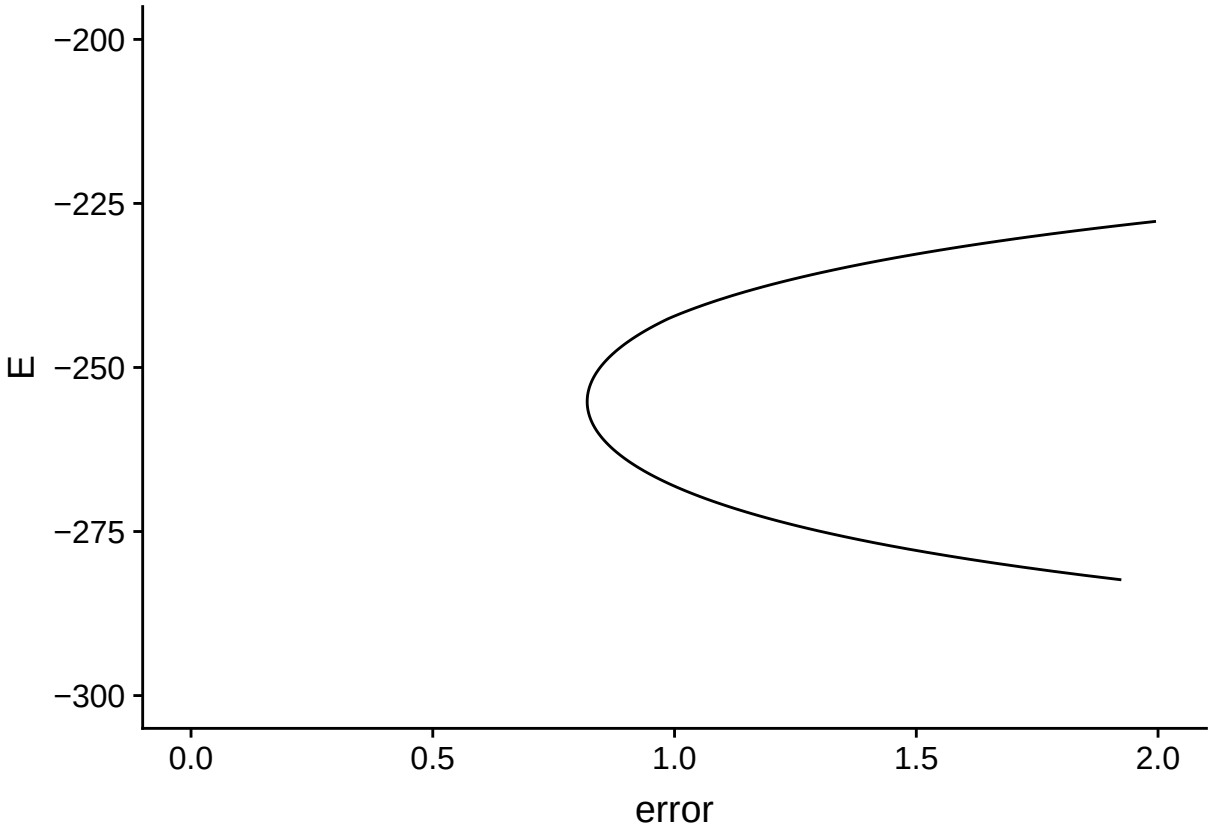
3
2
1
0
Error in E
−200
−225
−250
−275
−300
E


−300
−275
−250
−225
−200
E
0
1
2
3
Error in E



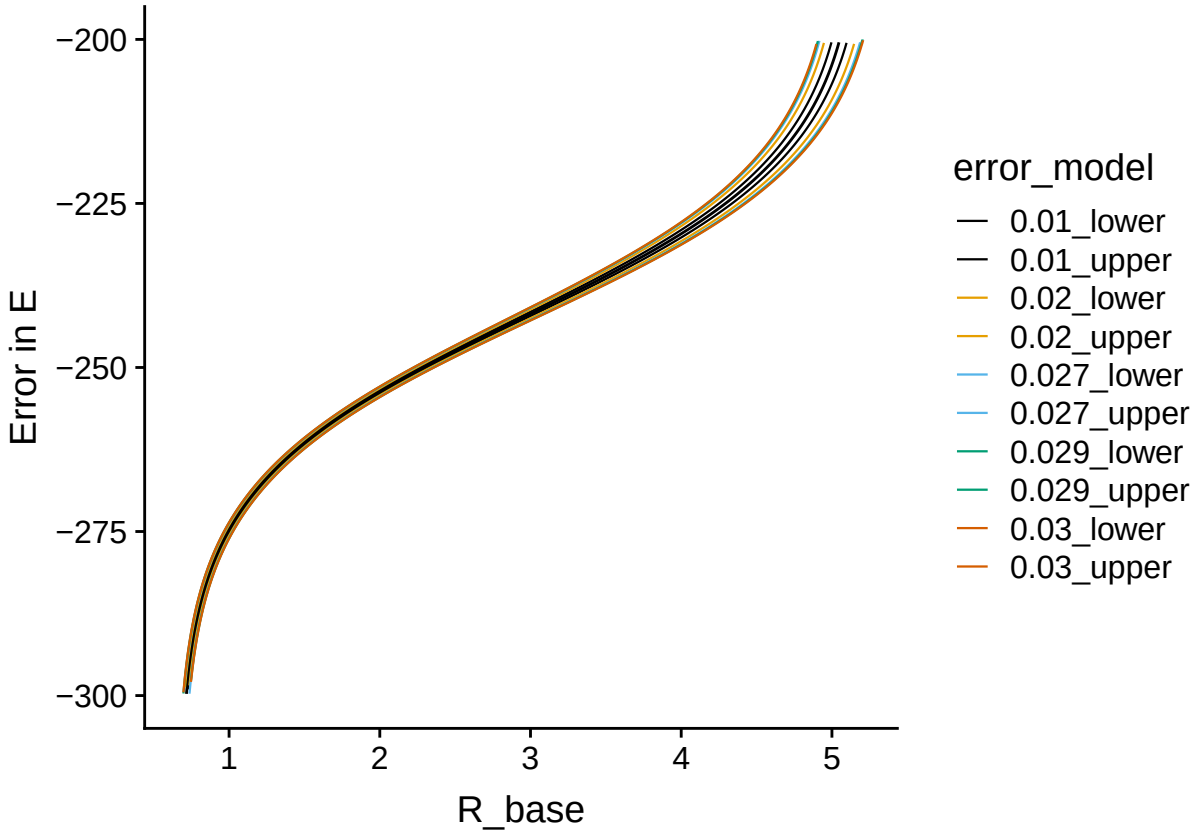
Phase plot (for absolute error of 0.03)

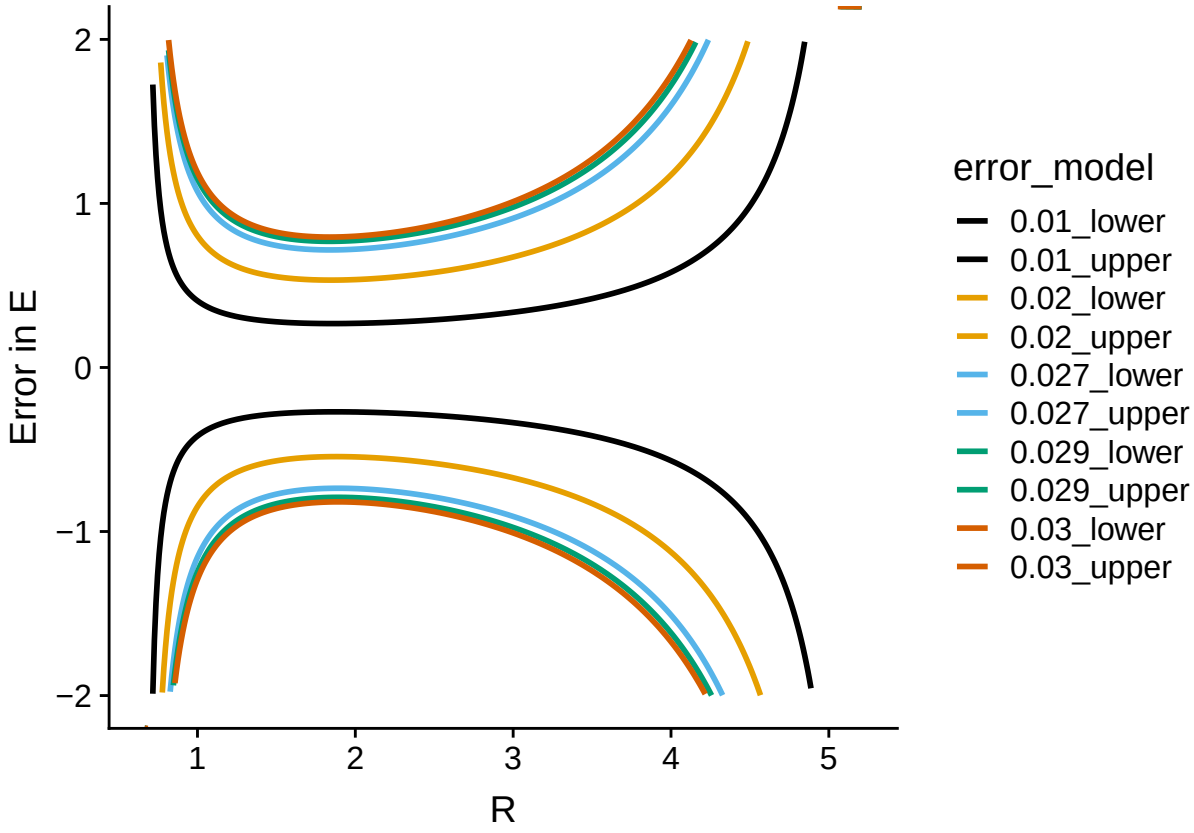
```
##  Named list()
##  - attr(*, "class")= chr [1:2] "theme" "gg"
##  - attr(*, "complete")= logi FALSE
##  - attr(*, "validate")= logi TRUE
```

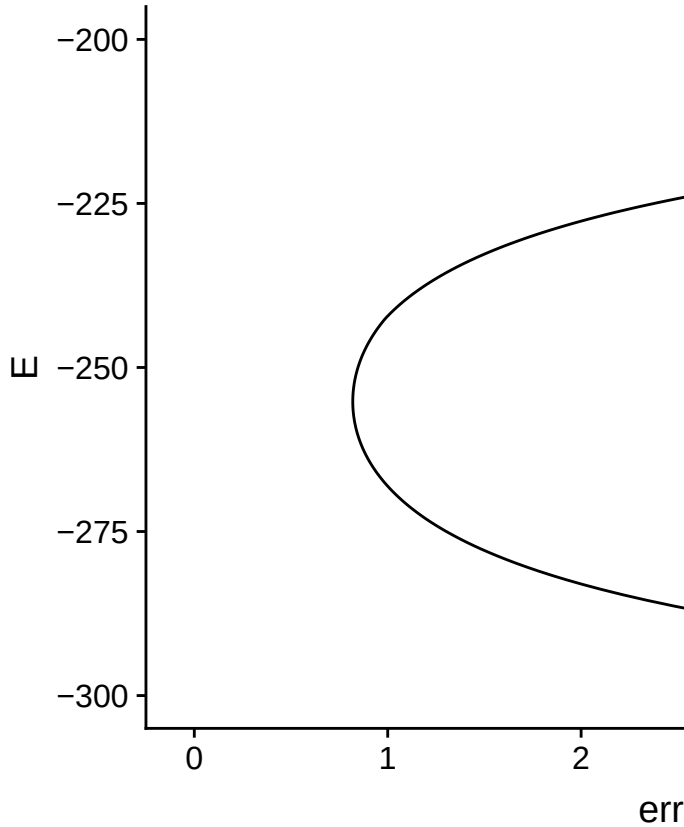


Sanity check: using percent errors

Note: All of the previous graphs were using **absolute** errors. Those looked small, so here are all the exact same graphs, but just with **relative**/ **percent** errors instead.


−200
−225
−250
−275
−300
Error in E
1
2
3
4
5
R_base
error_model
0.01_lower
0.01_upper
0.02_lower
0.02_upper
0.027_lower
0.027_upper
0.029_lower
0.029_upper
0.03_lower
0.03_upper


Error in E
2
1
0
−1
−2
1
2
3
4
5
R
error_model
0.01_lower
0.01_upper
0.02_lower
0.02_upper
0.027_lower
0.027_upper
0.029_lower
0.029_upper
0.03_lower
0.03_upper



Phase plot (for relative error of R*0.03)