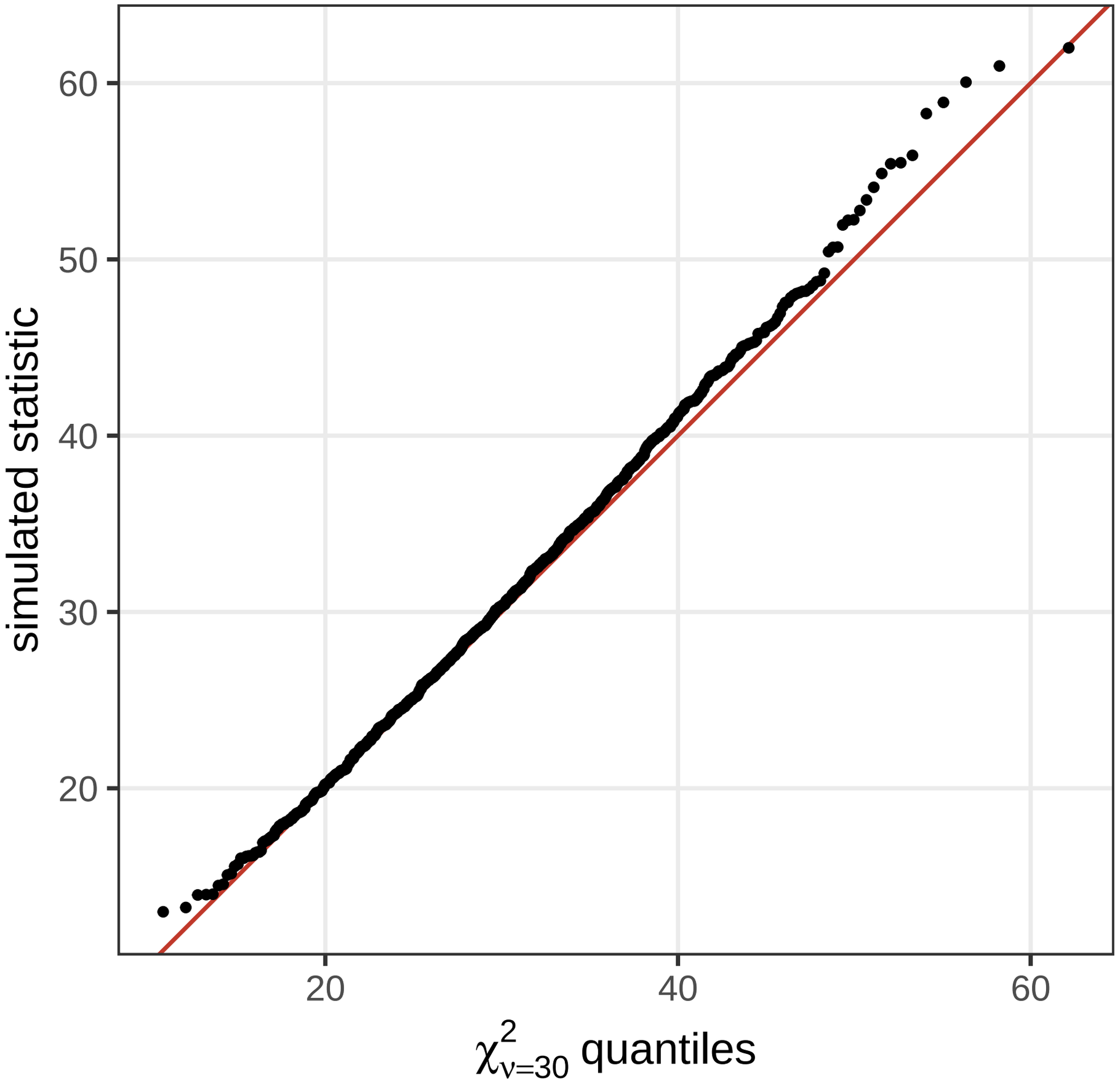

simulated statistic
60
50
40
30
20
20
40
60
$\chi^2_{\nu=30}$ quantiles