

```
1 set xlabel 'Z'
2 set ylabel '1/N dN/dZ'
3 set xrange [-10:10]
4
5 set ytics nomirror
6 set xtics nomirror
7
8 set terminal pdf font "Times New Roman-Bold"
9
10 set output 'problem2_2000.pdf'
11
12 samplesize = 10000
13 binwidth = 0.3
14 bin(x, width) = width * floor(x / width) + width/2.0
15
16 plot 'problem2_2000.txt' using (bin($1, binwidth)):(1.0 / (binwidth * ↗
    smooth freq with boxes title 'sum of 2000 variables', exp(-x ↗
    * x/2)/sqrt(2 * pi) title "Gaussian"
17
```